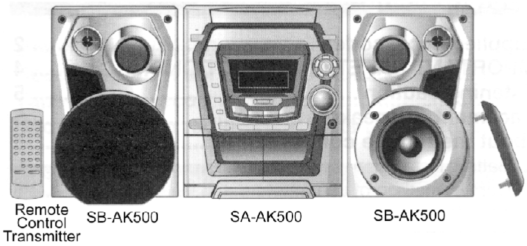
ORDER NO. MD0201006C1
A6

# Service Manual

## CD Stereo System

## SA-AK500P / SA-AK500PC

Colour
(S)... Silver Type
TAPE SECTION :
SG-2W MECHANISM SERIES
CD SECTION :
RAE0152Z-3 TRAVERSE DECK SERIES


Remote Control Transmitter
SB-AK500
SA-AK500
SB-AK500

## SPECIFICATIONS

### Specifications

## ■ AMPLIFIER SECTION

| | |
|---|---|
| Power output | |
| 10% Total harmonic distortion | |
| 3 kHz - 16 kHz, both channels driven | |
| (HIGH) | 50 W per channel (6 Ω) |
| 60 Hz - 3 kHz, both channels driven | |
| (LOW) | 60 W per channel (6 Ω) |
| Total Bi-Amp power | 110 W per channel |
| Power output | |
| 10% Total harmonic distortion | |
| 10 kHz, both channels driven | |
| (HIGH) | 63 W per channel (6 Ω) |
| 1 kHz, both channels driven | |
| (LOW) | 67 W per channel (6 Ω) |
| Total Bi-Amp power | 130 W per channel |
| Input sensitivity | |
| AUX | 250 mV |
| Input Impedance | |
| AUX | 13.3 kΩ |

## ■ FM TUNER SECTION

| | |
|---|---|
| Frequency range | 87.9 - 107.9 MHz (200 kHz steps) |
| | 87.5 - 108.0 MHz (100 kHz steps) |
| Sensitivity | 2.5 μV (IHF) |
| S/N 26 dB | 2.2 μV |
| Antenna terminal(s) | 75 Ω (unbalanced) |

## ■ AM TUNER SECTION

| | |
|---|---|
| Frequency range | 520 - 1710 kHz (10 kHz steps) |
| Sensitivity | |
| S/N 20 dB (at 1000 kHz) | 560 μV/m |

## ■ CASSETTE DECK SECTION

| | |
|---|---|
| Track system | 4 track, 2 channel |
| Heads | |
| Record/playback | Solid permalloy head |
| Erasure | Double gap ferrite head |
| Motor | DC servo motor |
| Recording system | AC bias 100 kHz |
| Erasing system | AC erase 100 kHz |
| Tape speed | 4.8 cm/s |
| Frequency response (+3 dB, -6 dB at DECK OUT) | |
| NORMAL (TYPE I) | 35 Hz - 14 kHz |
| S/N | 50 dB (A weighted) |
| Wow and flutter | 0.18 % (WRMS) |
| Fast forward and rewind time | Approx. 120 seconds with C-60 cassette tape |

## ■ CD SECTION

| | |
|---|---|
| Sampling frequency | 44.1 kHz |
| Decoding | 16 bit linear |
| Beam source/wave length | Semiconductor laser/780 nm |
| Number of channels | Stereo |
| Frequency response | 20 Hz - 20 kHz (+1, -2 dB) |
| Wow and flutter | Below measurable limit |

| | |
|---|---|
| Digital filter | 8 fs |
| D/A converter | MASH (1 bit DAC) |
| ■ MP3 SECTION | |
| MP2 decode | Base on MPEG 1 Layer 3 |
| Bitrate | 32 kbps - 320 kbps |
| Sampling frequency | 32 kHz, 44.1 kHz, 48 kHz |
| ■ GENERAL | |
| Power supply | AC 120 V, 60Hz |
| Power consumption | 215 W (250VA) |
| Power consumption in standby mode | 0.34 W |
| Dimensions (W x H x D) | 250 x 315 x 345 mm<br>(9 27/32” x 12 13/32” x 13 19/32”) |
| Mass | 7.5 kg (16.5 lb) |
| ■ SYSTEM | |
| SC-AK500(P) | Music Center: SA-AK500(P)<br>Speaker: SB-AK500(P) |
| SC-AK500(PC) | Music Center: SA-AK500(PC)<br>Speaker: SB-AK500(P) |

**Notes:**

1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.
3. The labels “HIGH” and “LOW” on the rear of the speakers refer to High frequency and Low frequency.

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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# 1. Safety Precaution

**(This “Safety Precaution” is applied only in U.S.A.)**

1. **Before servicing, unplug the power cord to prevent an electric shock.**
2. **When replacing parts, use only manufacturer’s recommended components for safety.**
3. **Check the condition of the power cord. Replace if wear or damage is evident.**
4. **After servicing, be sure to restore the lead dress, insulation**

barriers, insulation papers, shields, etc.

5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

## 1.1. Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. / Equipment with antenna terminals should read between 2.7M Ω and 3.9M Ω to all exposed parts*. (Fig.1) / Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig.2) / *Note : Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

Fig.1

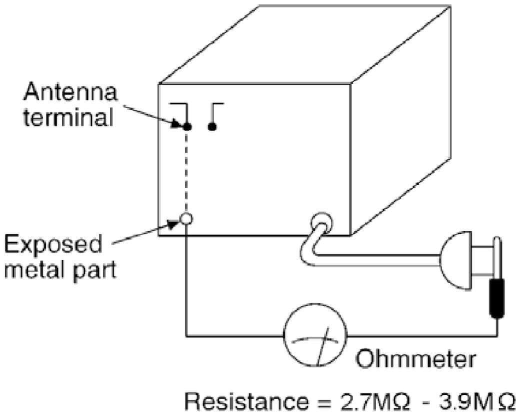
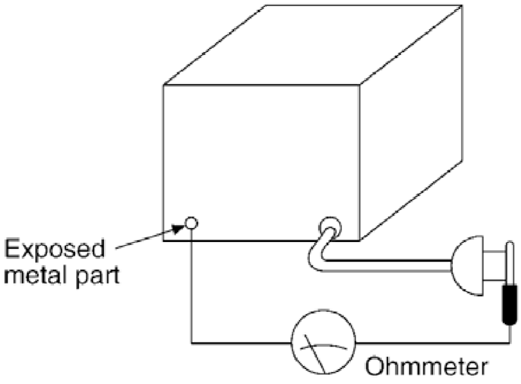


Fig.2



Resistance = Approx ∞

# 2. Before Repair and Adjustment

**Disconnect AC power, discharge Power Supply Capacitors C528, C529 and C960 through a 10 Ω , 5W resistor to ground.**

**DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.**

**After repairs are completed, restore power gradually using a variac, to avoid overcurrent.**

**Current consumption at AC 120V, 60 Hz in NO SIGNAL mode should be ~600mA.**

# 3. Protection Circuitry

**The protection circuitry may have operated if either of the following conditions are noticed:**

**- No sound is heard when the power is turned on.**

**- Sound stops during a performance.**

**The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are**

**“shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.**

**If this occurs, follow the procedure outlines below:**

**1. Turn off the power.**

**2. Determine the cause of the problem and correct it.**

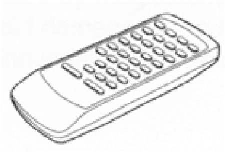
**3. Turn on the power once again after one minute.**

**Note :**

**When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.**

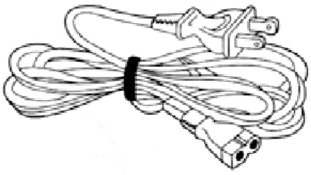
# 4. Accessories

**Remote Control Transmitter**

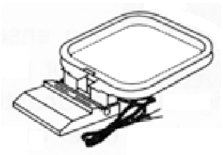


**FM indoor antenna**

**AC mains lead**



**AM Loop antenna**



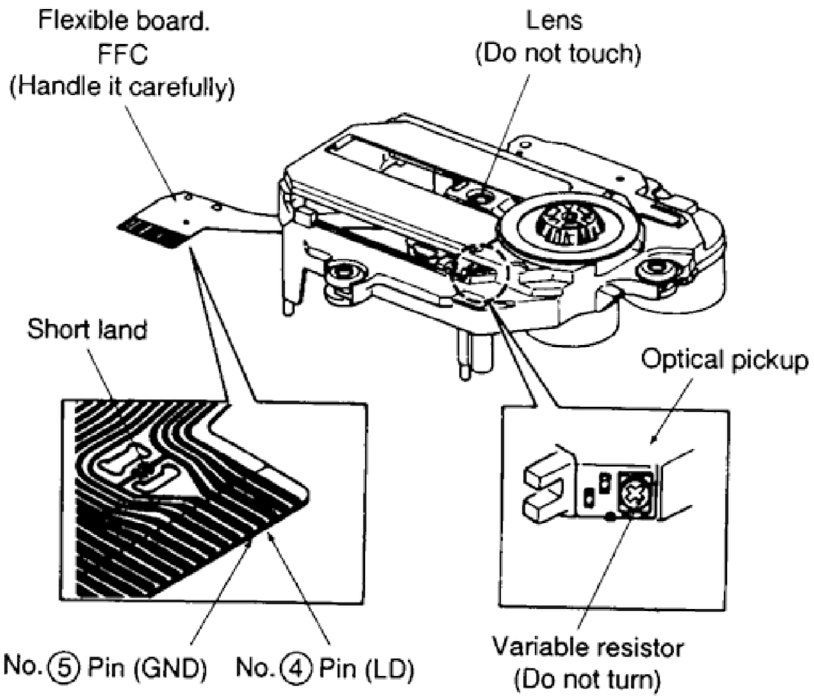
# 5. Handling Precautions For Traverse Deck

**The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.**

**So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).**

## - Handling of traverse deck (optical pickup)

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode.To connect to the PC board, be sure to open by removing the solder build-up, and finishthe work quickly.**
3. **Take care not to apply excessive stress to the flexible board (FFC).**
4. **Do not turn the variable resistor (laser power adjustment). It has already been adjusted.**


Flexible board.
FFC
(Handle it carefully)
Lens
(Do not touch)
Short land
Optical pickup
No.⑤ Pin (GND)
No.④ Pin (LD)
Variable resistor
(Do not turn)

**- Grounding for electrostatic breakdown prevention**

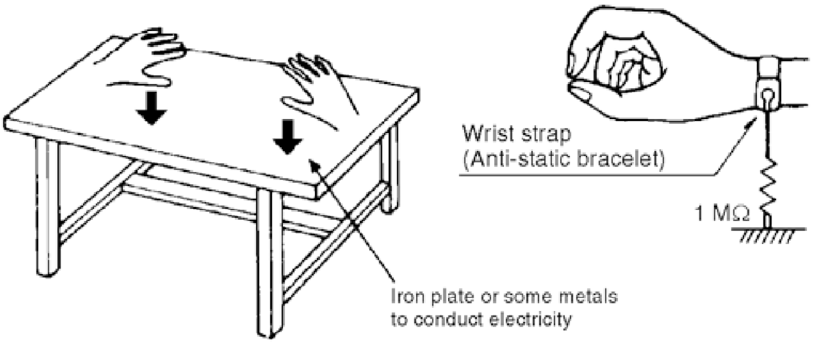
1. **Human body grounding**
   **Use the anti-static wrist strap to discharge the static electricity from your body.**
2. **Work table grounding**
   **Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.**

**Caution :**

**The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).**

**Caution when Replacing the Traverse Deck :**

**The traverse deck has a short point shorted with solder to protect the laer diode against electroststics breakdown. Be sure to remove the solder from the short point before making connections.**



# 6. Precaution of Laser Diode

**CAUTION:**

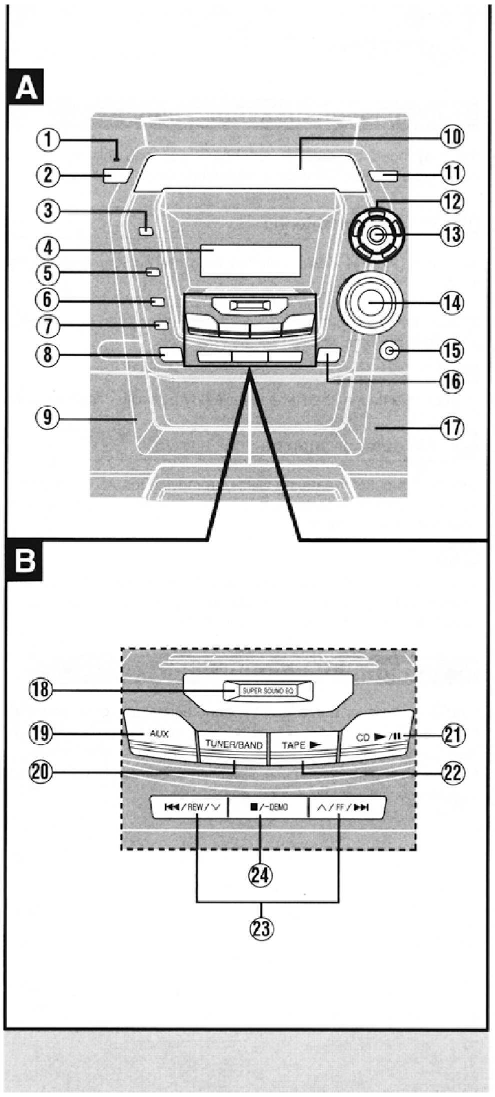
**This unit utilizes a class 1 laser.**
**Invisible laser radiation is emitted from the optical pickup lens.**
**When the unit is turned on:**

1. **Do not look directly into the pick up lens.**
2. **Do not use optical instruments to look at the pick up lens.**
3. **Do not adjust the preset variable resistor on the pickup lens.**
4. **Do not disassemble the optical pick up unit.**
5. **If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.**
6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

**CAUTION!**

**THIS PRODUCT UTILIZES A LASER.**
**USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH**
**SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

# 7. Operation Procedures



# Front panel controls

## A Main unit

No. Name

① **AC supply indicator (AC IN)**
This indicator lights when the unit is connected to the AC power supply.

② **Standby/on switch (⏻/I, POWER)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

③ **Display button (DISPLAY)**

④ **Display**

⑤ **Preset EQ select button (PRESET EQ)**

⑥ **Record button (● REC)**

⑦ **Deck select button (DECK 1/2)**

⑧ **Deck 1 open button (⏏ DECK 1 OPEN)**

⑨ **Deck 1 cassette holder**

⑩ **Disc tray**

⑪ **Remote control signal sensor (SENSOR)**

⑫ **Disc direct play buttons (1 ~ 5)**

⑬ **CD open/close button (⏏)**

⑭ **Volume control (VOL DOWN, UP)**

⑮ **Headphone jack (PHONES)**

⑯ **Deck 2 open button (⏏ DECK 2 OPEN)**

⑰ **Deck 2 cassette holder**

## B Center console

⑱ **Super sound EQ button (SUPER SOUND EQ)**

⑲ **AUX button (AUX)**

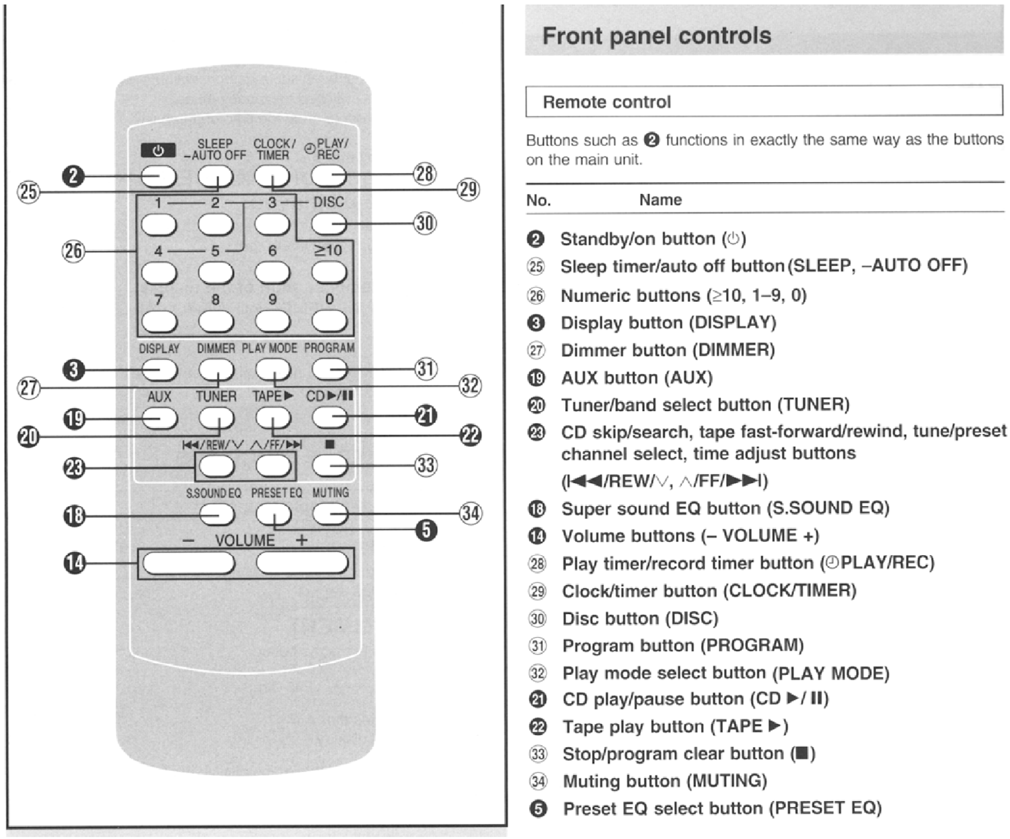
⑳ **Tuner/band select button (TUNER/BAND)**

㉑ **CD play/pause button (CD ►/II)**

㉒ **Tape play button (TAPE ►)**

㉓ **CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (⏮/REW/∨, ∧/FF/⏭)**

㉔ **Stop/program clear and demonstration button (■/–DEMO)**


⏻
SLEEP –AUTO OFF
CLOCK/ TIMER
⏲PLAY/ REC
1
2
3
DISC
4
5
6
≥10
7
8
9
0
DISPLAY
DIMMER
PLAY MODE
PROGRAM
AUX
TUNER
TAPE ▶
CD ▶/❚❚
I◀◀/REW/∨
∧/FF/▶▶I
■
S.SOUND EQ
PRESET EQ
MUTING
– VOLUME +
❷
㉕
㉖
❸
㉗
⓳
⓴
㉓
⓲
⓮
㉘
㉙
㉚
㉛
㉜
㉑
㉒
㉝
㉞
❺

**Front panel controls**

Remote control

Buttons such as ❷ functions in exactly the same way as the buttons on the main unit.

| No. | Name |
|---|---|
| ❷ | Standby/on button (⏻) |
| ㉕ | Sleep timer/auto off button (SLEEP, –AUTO OFF) |
| ㉖ | Numeric buttons (≥10, 1–9, 0) |
| ❸ | Display button (DISPLAY) |
| ㉗ | Dimmer button (DIMMER) |
| ⓳ | AUX button (AUX) |
| ⓴ | Tuner/band select button (TUNER) |
| ㉓ | CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (I◀◀/REW/∨, ∧/FF/▶▶I) |
| ⓲ | Super sound EQ button (S.SOUND EQ) |
| ⓮ | Volume buttons (– VOLUME +) |
| ㉘ | Play timer/record timer button (⏲PLAY/REC) |
| ㉙ | Clock/timer button (CLOCK/TIMER) |
| ㉚ | Disc button (DISC) |
| ㉛ | Program button (PROGRAM) |
| ㉜ | Play mode select button (PLAY MODE) |
| ㉑ | CD play/pause button (CD ▶/❚❚) |
| ㉒ | Tape play button (TAPE ▶) |
| ㉝ | Stop/program clear button (■) |
| ㉞ | Muting button (MUTING) |
| ❺ | Preset EQ select button (PRESET EQ) |

# 8. Disassembly and Main Component Replacement Procedures

**“ATTENTION SERVICER”**

**Some chassis components may have sharp edges.**
**Be careful when disassembling and servicing.**

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   **Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

**Contents**

## - Disassembly Procedure for each major P.C.B.

**1. Checking of the Main, Panel, Transformer, Deck and MP3 P.C.B.**
**2. Checking of Power P.C.B.**

**- Main Component Replacement Procedures**
**1. Replacement of the Traverse Deck.**
**2. Replacement of the Power Amplifier IC.**

**- Disassembly and assembly of the Traverse Unit**

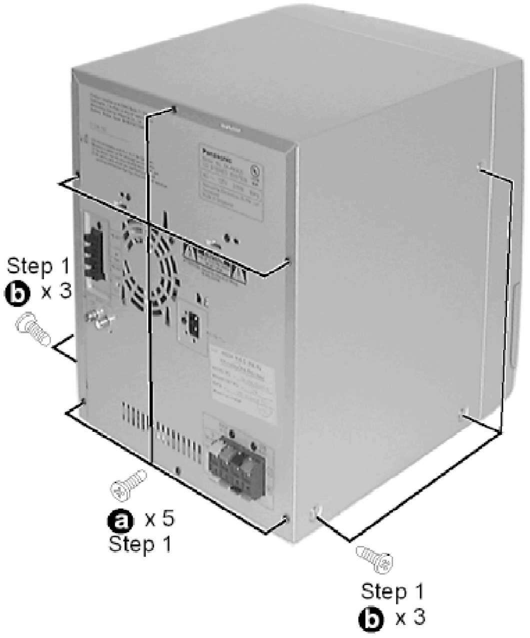
**- Disassembly and assembly of the Disc Tray**

**Warning:**
**This product uses a laser diode. Refer to caution statement “Precaution of Laser Diode.**

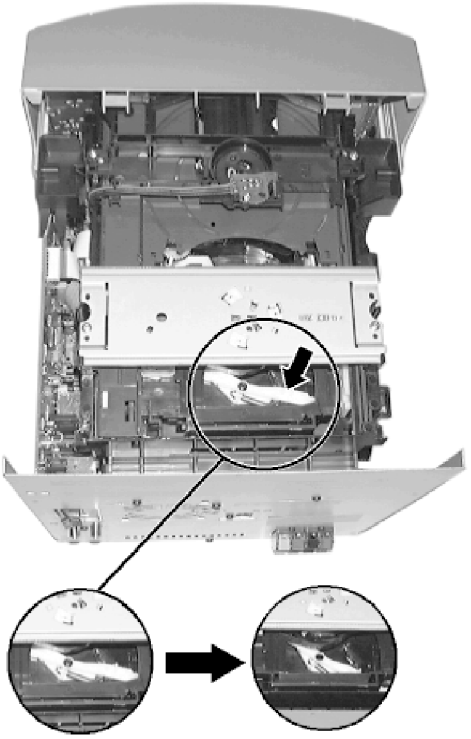
## 8.1. Disassemly Procedure for each major P.C.B.

### 8.1.1. Checking of the Main, Panel, Transformer, Deck, MP3 and Power P.C.B.

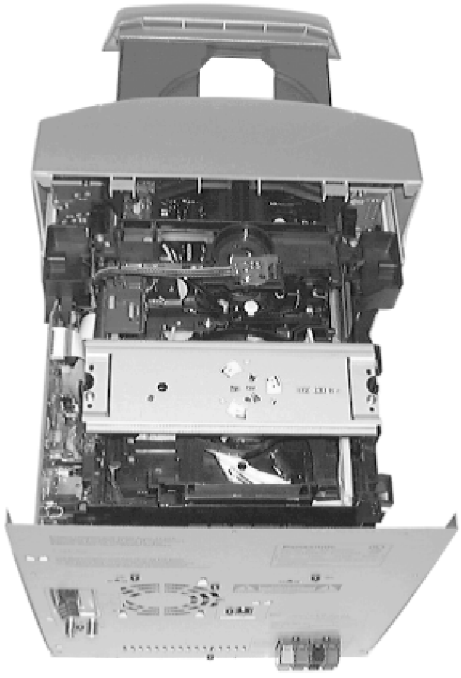
**Step 1 Remove 3 screws each side and 5 screws at rear panel.**

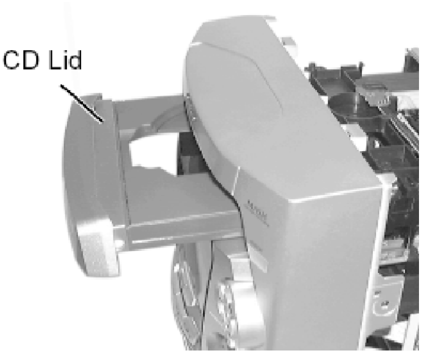


**Step 2 Remove the Top Cabinet.**

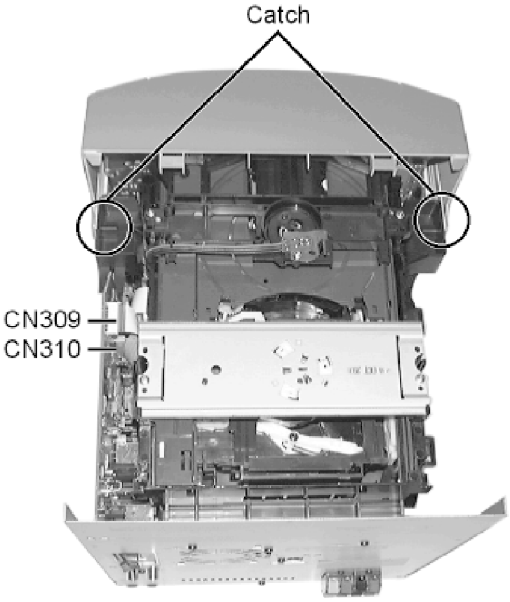


**Step 3 Push the lever in the direction of the arrow.**

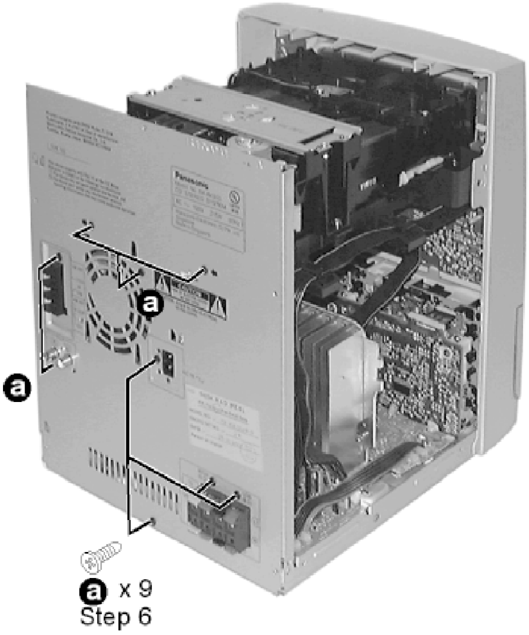




**Step 4 Pull out the CD tray as shown and remove the CD lid. Push back the CD tray after the CD lid has been removed.**

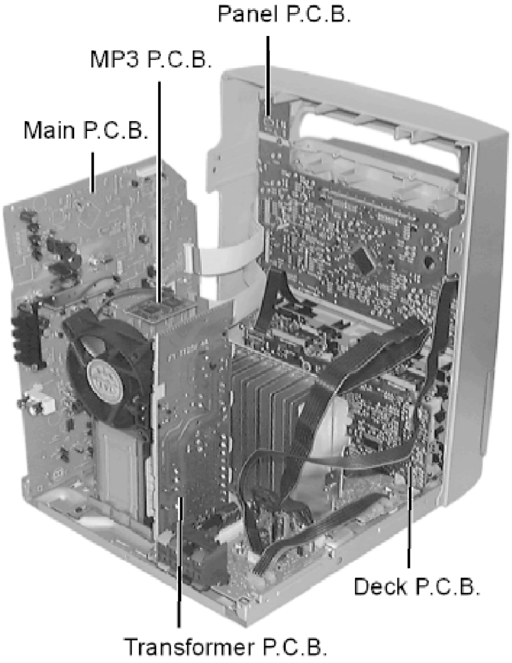


**Step 5 Release the 2 catches, disconnect CN309 and CN310. Rremove the CD changer base together with the CD changer.**

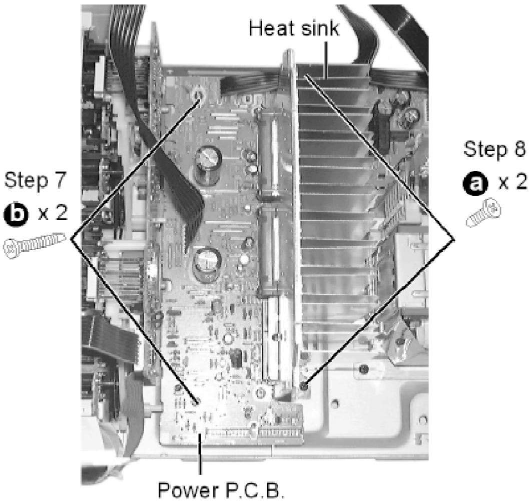

a
a
a x 9
Step 6

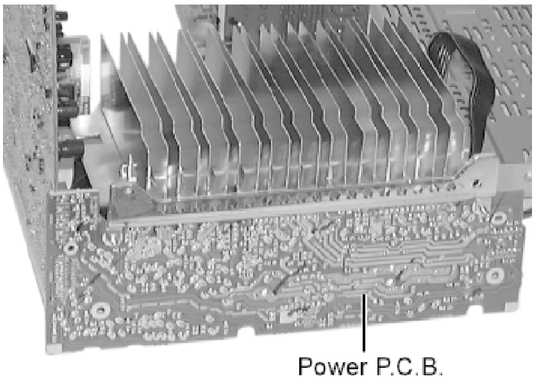
**Step 6 Remove 9 screws.**

## - Checking for Main, Panel, Transformer, MP3 and Deck P.C.B


Panel P.C.B.
MP3 P.C.B.
Main P.C.B.
Deck P.C.B.
Transformer P.C.B.

## - Checking for Power P.C.B.

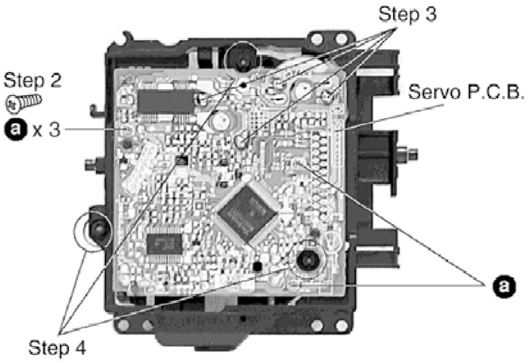

Heat sink
Step 7
b x 2
Step 8
a x 2
Power P.C.B.

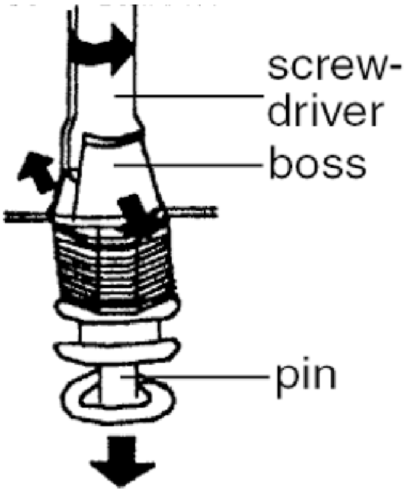


## 8.2. Main Component Replacement Procedures

### 8.2.1. Replacement of the Traverse Deck

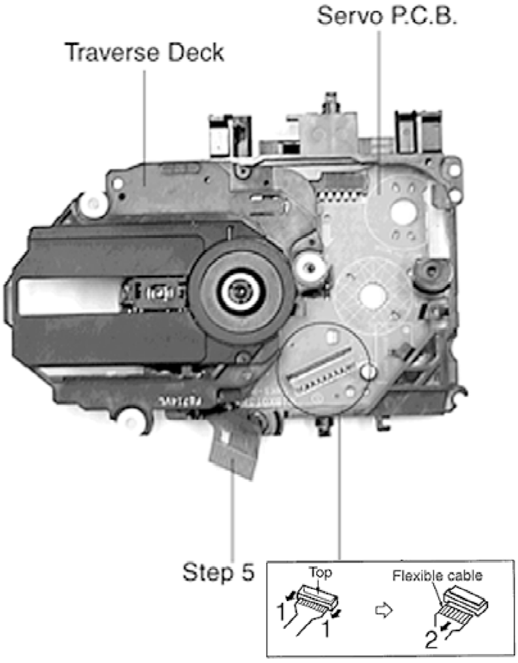
**Step 1 Follow the procedures in ‘Disassembly of the Traverse Unit’ ( Step 1 - Step 4 ).**

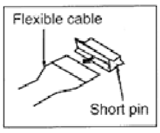

Step 3
Step 2
a x 3
Servo P.C.B.
a
Step 4


screw-
driver
boss
pin

**Step 3 Desolder the 4 legs of the 2 motors and pull out the Servo P.C.B.**

**Step 4 Widen the 3 bosses with a flat screwdriver and pull out the 3 pins. Then remove the Traverse Deck.**


Servo P.C.B.
Traverse Deck
Step 5
Top
Flexible cable
1
1
1
2


Flexible cable
Short pin

**Step 5 Remove the flexible cable CN701.**

## - Removal of the flexible cable. Push the top of the connector in the direction of the arrow 1, and then pull out the flexible cable in the direction of the arrow 2.

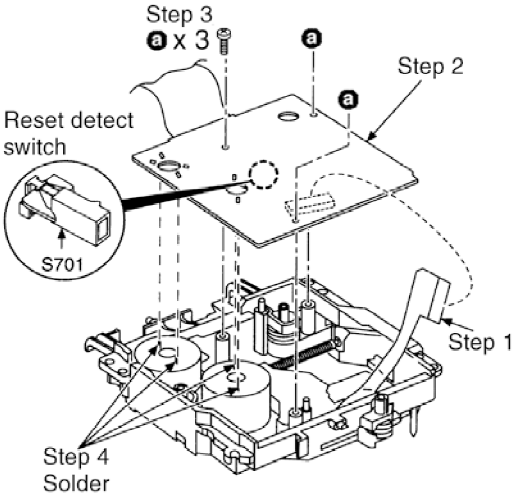
**Note:**

**Insert a short pin into the flexible cable for traverse unit.**

## - Installation of the CD servo P.C.B. after replacement

**Step 1 Connect the FFC board.**

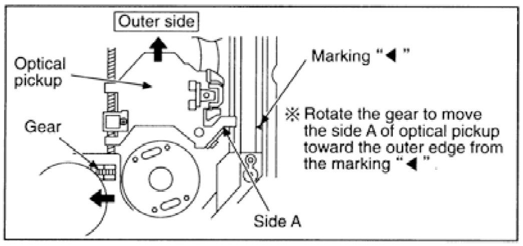
**Step 2 Install the CD servo P.C.B. in the traverse deck assembly.**


Step 3
a x 3
a
Step 2
a
Reset detect switch
S701
Step 1
Step 4
Solder

**Note:**

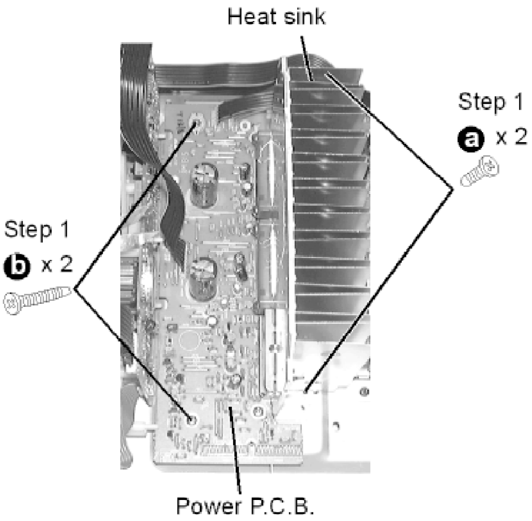
**Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle).**

**[Otherwise, the reset detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]**

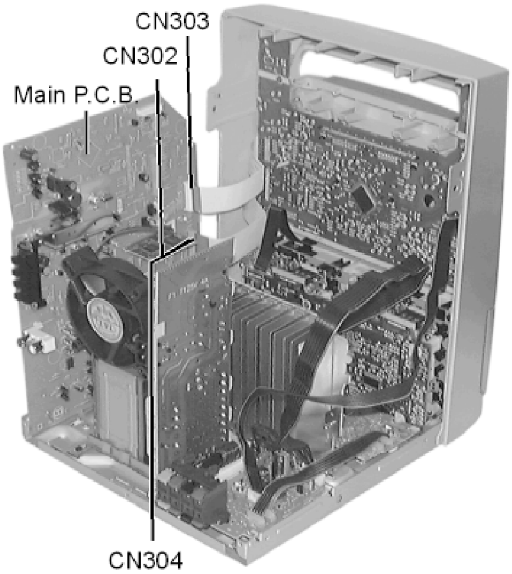

Outer side
Optical pickup
Gear
Marking "◀"
※ Rotate the gear to move the side A of optical pickup toward the outer edge from the marking "◀".
Side A

## 8.2.2. Replacement of the Power Amplifier IC

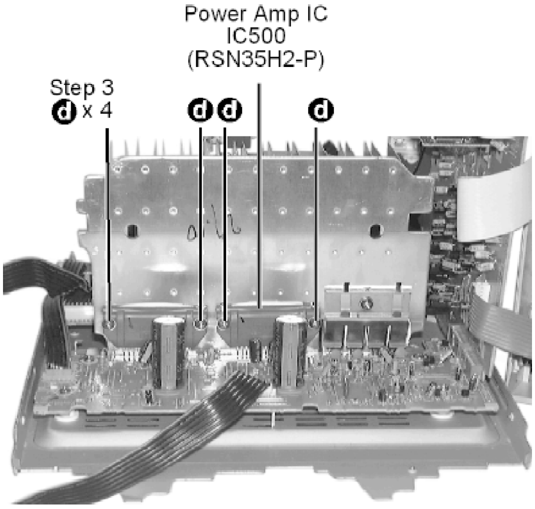
**Step 1 Follow the procedures in ‘Checking Procedure for each major P.C.B.’ ( Step 1 - Step 4 ).**


Heat sink
Step 1
a x 2
Step 1
b x 2
Power P.C.B.

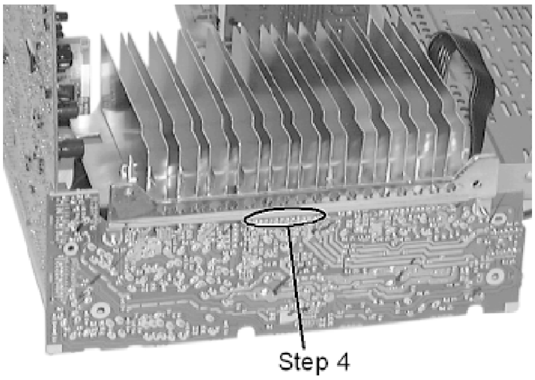
**Step 2 Remove the wires at CN302, CN303 and CN304 and pull out the Main PCB.**


CN303
CN302
Main P.C.B.
CN304

**Step 3 Remove the 4 screws fixed to the Power Amplifier IC.**


Power Amp IC
IC500
(RSN35H2-P)
Step 3
d x 4
d d
d

**Step 4 Unsolder the terminals of Power Amp IC and replace the respective component.**

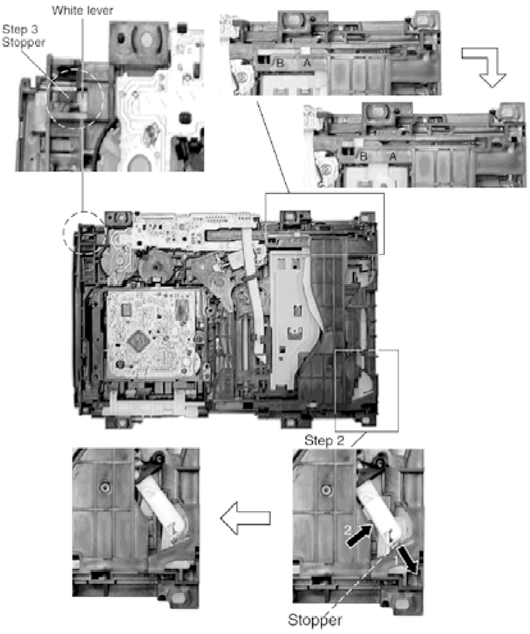


## 8.3. Disassembly and assembly of the Traverse Unit

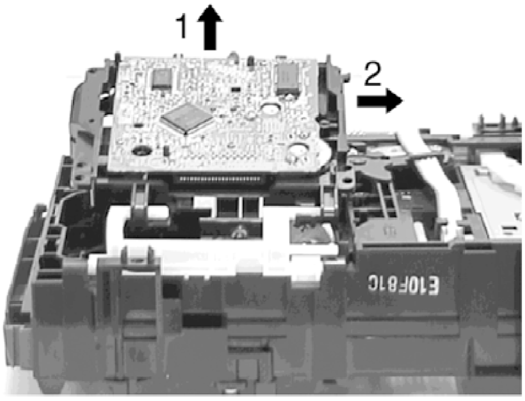
**Step 1 Push the lever from position A to B.**

**Step 2 Pull the stopper (black) in the direction of arrow 1 and push the lever in the direction of arrow 2.**

**Step 3 Push the stopper (black) down until the white lever eject out.**


White lever
Step 3
Stopper
B A
B A
Step 2
2
Stopper

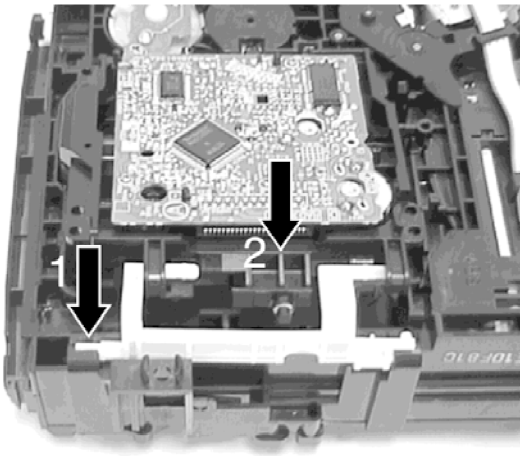
**Step 4 Lift up the traverse unit and slide out the unit as shown.**



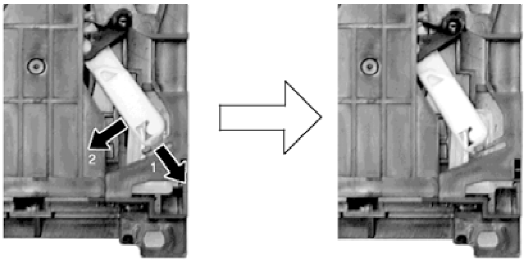
## - Replacement of Traverse Unit

**Step 1 Place the traverse unit as shown.**

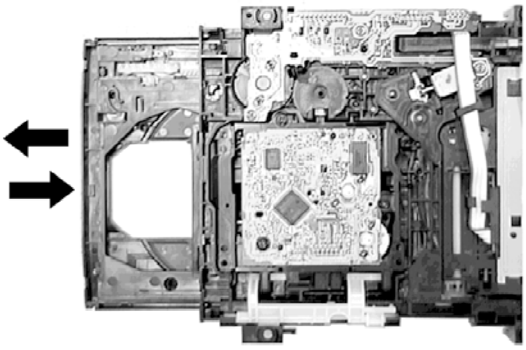
**Step 2 Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.**



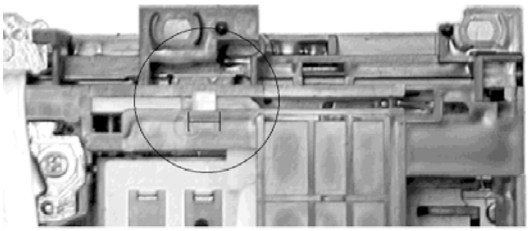
**Step 3 Pull the stopper in the direction of arrow 1 and release the lever in the direction of arrow 2 as shown.**



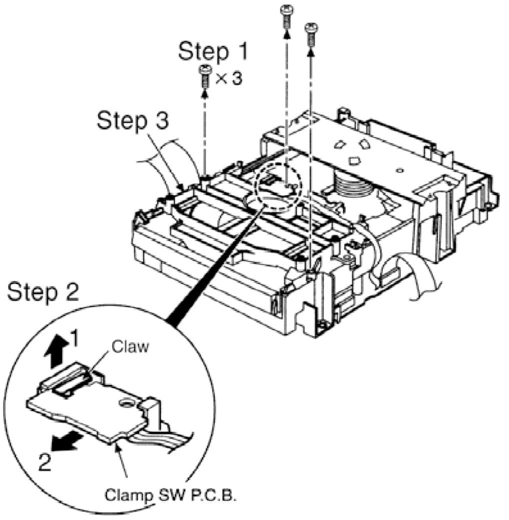
**Step 4 Pull out the tray half way and push it back fully.**



**Step 5 Push the lever to the initial position indicated ‘|---|’.**

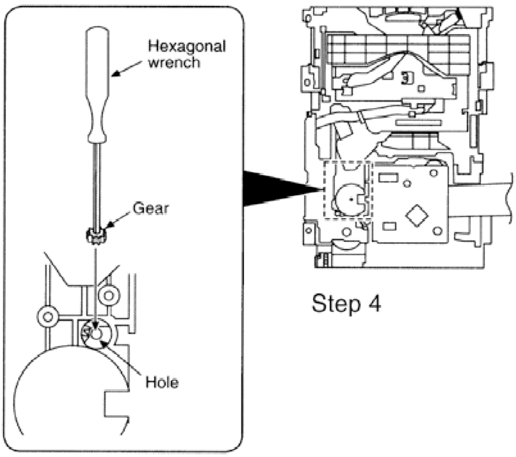


## 8.4. Disassembly and assembly of the Disc Tray

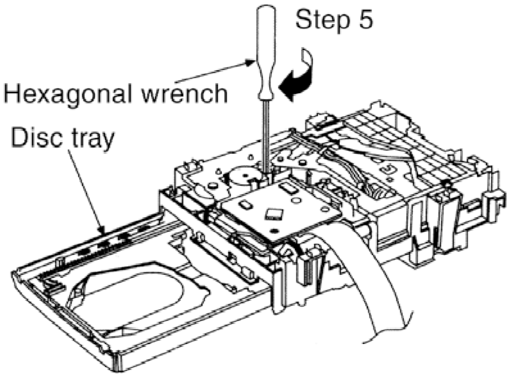

Step 1
×3
Step 3
Step 2
1
Claw
2
Clamp SW P.C.B.

**Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.**

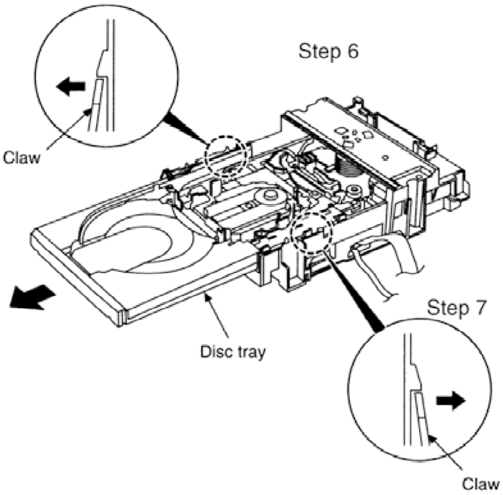
**Step 3 Remove the mechanism cover.**


Hexagonal wrench
Gear
Hole
Step 4

**Step 4 Insert the gear with hexagonal wrench into the hole.**

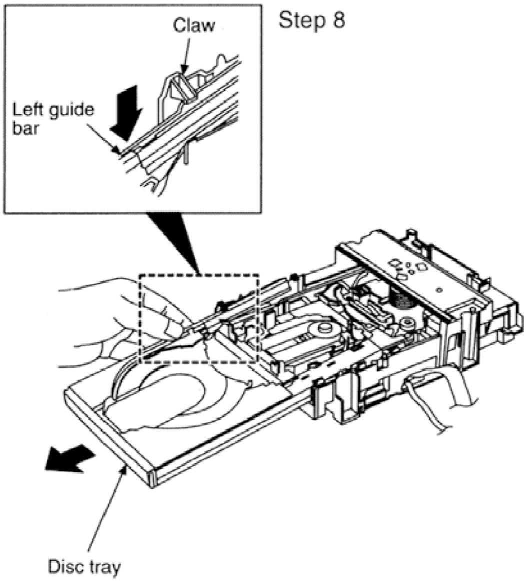

Step 5
Hexagonal wrench
Disc tray

**Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.**


Step 6
Claw
Disc tray
Step 7
Claw

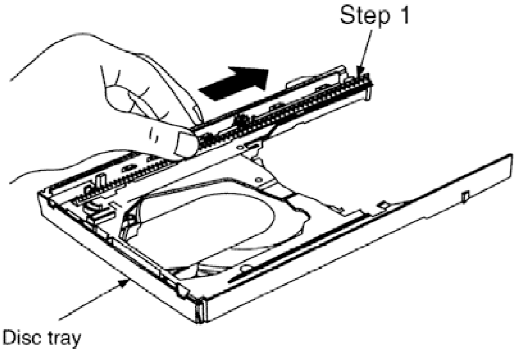
**Step 6 Upset the CD changer unit again.**

**Step 7 Release both the claws, and then draw the disc tray.**

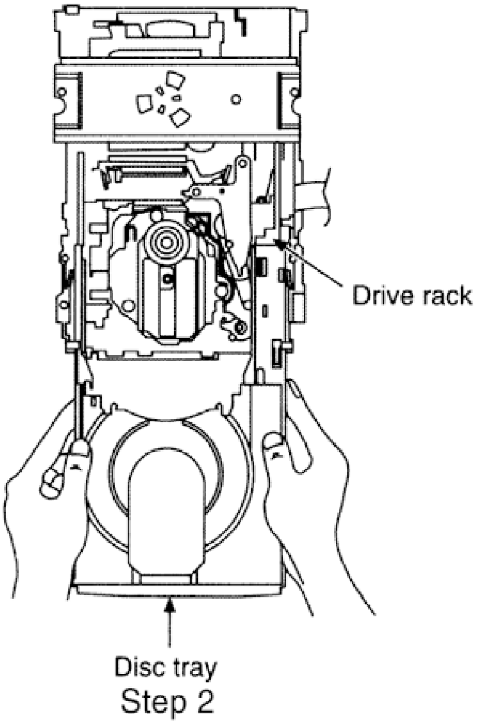

Claw
Step 8
Left guide bar
Disc tray

**Step 8 With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.**

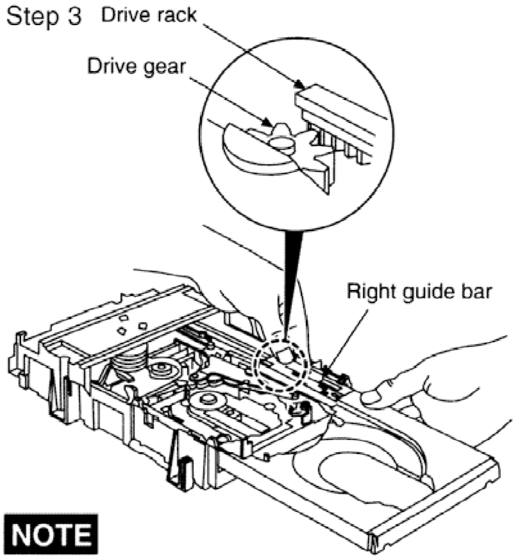
## - Installation of the disc tray after replacement


Step 1
Disc tray

**Step 1 Slide the drive rack fully in the direction of the arrow.**


Drive rack
Disc tray
Step 2

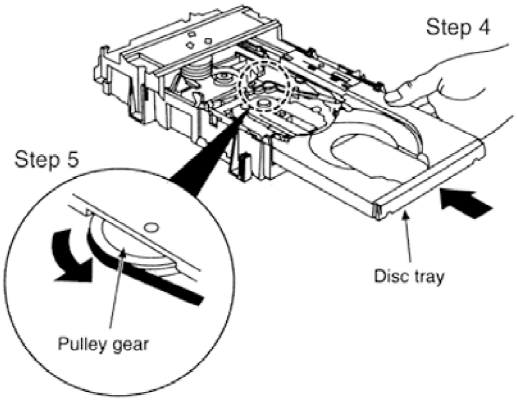
**Step 2 Holding the drive rack, not to move, install the disc tray.**


Step 3
Drive rack
Drive gear
Right guide bar

**NOTE**

Force the right guide bar of tray base manually not to move upwards.

**Step 3 Align the drive rack with the drive gear.**



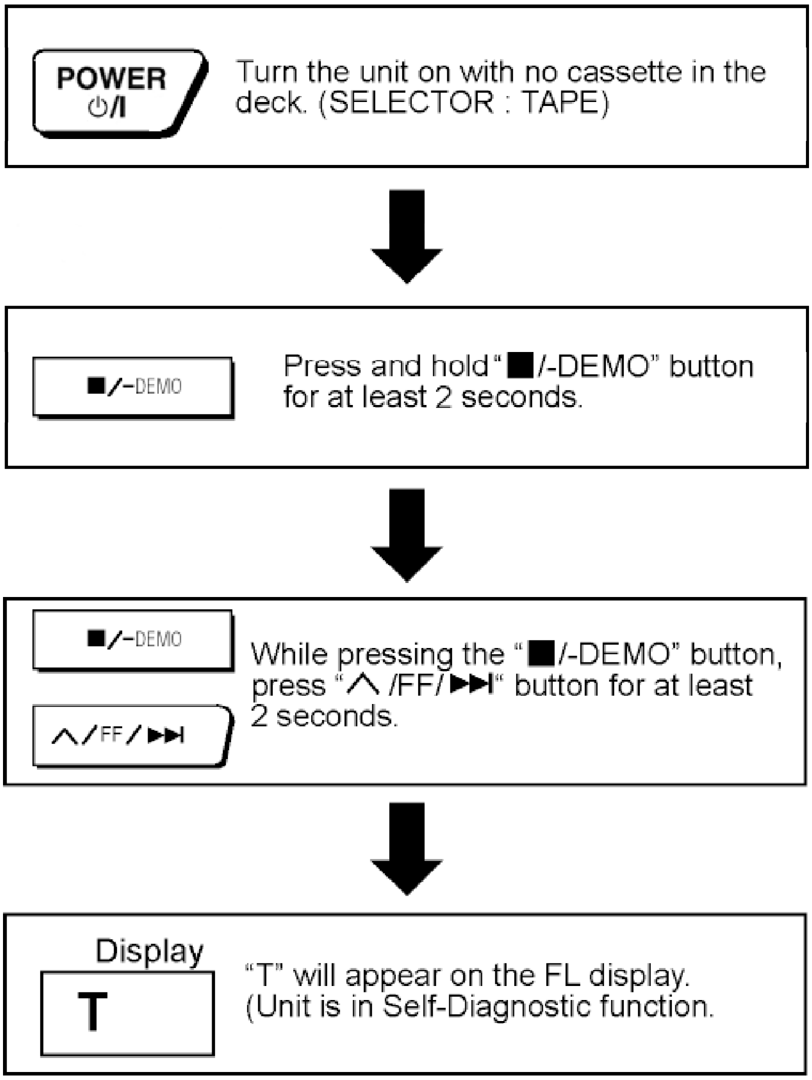
**Step 4 Holding the disc tray manually, rotate the pulley gear in the direction of arrow.**
**Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.**

# 9. Self-Diagnostic Function

## 9.1. Self-diagnostic display

**This unit is equipped with a self-diagnostic display function which, if a problem occurs, will display an error code corresponding to the problem.**
**Use this function when performing maintenance on the unit.**

## 9.2. How to enter the Self-Diagnostic Function



Turn the unit on with no cassette in the deck. (SELECTOR : TAPE)

Press and hold "■/-DEMO" button for at least 2 seconds.

While pressing the "■/-DEMO" button, press "∧ /FF/▶▶I" button for at least 2 seconds.

"T" will appear on the FL display. (Unit is in Self-Diagnostic function.

## 9.3. Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

**1. Press "TAPE, DECK 1/2" to select Deck 2.**

**2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.**

**3. Press "FAST FORWARD MEMORY" (Tape will be stop after 2 seconds)**

**4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.**

**5. Press "REVERSE FM MODE/BP" (Tape will be stop after 2 seconds)**

**6. Load a pre-recorded tape with both side record tabs intact and**

close the cassette holder.

7. Press “PLAY/TUNE/TIME ADJ UP” (After TPS function, tape will stop automatically)

8. Press “REC/STOP” (Tape will not move)

9. Press “STOP/TUNE MODE” to indicate Error code.

   - If several problem exist, error code will change each time when “ ■ /TUNE MODE” is pressed.
     (e.g. H01 → H03 → F01 .....etc.)

10. Press “TAPE, DECK 1/2” to select Deck 1.

11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

### 9.4. CD Mechanism Test (F15, F26, F16, F17, F27, F28, F29, H15)

1. Press “CD”.

2. Press “OPEN/CLOSE (1)” and place a CD.

3. Press “OPEN/CLOSE (1)” to close the tray.

4. Press “OPEN/CLOSE (5)” and wait until the tray is open.

5. Press “OPEN/CLOSE (1)” and remove the CD.

6. Press “OPEN/CLOSE (1)” to close the tray.

7. Press “ ■ /TUNE MODE” to indicate Error Code.

   - If several problem exist, error code will change each time when “ ■ /TUNE MODE” is pressed. (e.g. F15 → F26 → F16 .... etc).

### 9.5. To clear all Error code

1. Press “STOP/TUNE MODE” button for 5 seconds.

2. FL indicator shows “CLEAR” for 1 second and change to “T”.

### 9.6. How to get out from Self-Diagnostic function

1. Press “Power” button OFF.

### 9.7. Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

# 10. Description of Error Code

## 10.1. Error detection for Cassette Mechanism block

| No. | Error | Error Display | Problem condition |
|---|---|---|---|
| 1 | MODE SW<br>detection error | H01 | Faulty operation of cassette mechanism.<br>Faulty contact or short-circuit of mechanism mo switch (S951, S971). |
| 2 | REC INH SW<br>detection error | H02 | Recording not possible.<br>Faulty contact or short-circuit of REC INH switch (S974, S975). |
| 3 | HALF SW<br>detection error | H03 | Playback cannot perform.<br>Faulty contact or short-circuit of HALF siwtch (S S972). |
| 4 | Reel Pulse<br>detection error | F01 | The tape advances slightly and then stops.<br>Faulty reel pulse, faulty hole detect IC (IC951, IC |
| 5 | TPS abnormal | F02 | Cassette deck will not perform TPS function.<br>Faulty playback EQ/recording amplifier IC (IC101 |

## 10.2. Error detection for CD/Changer block

| No. | Error | Error Display | Problem condition |
|---|---|---|---|
| 1 | REST SW detection error | F15 | CD does not function.<br>This error occurs when the Optical Pick Up RES (S701) is not detected within the specified time (about 8 seco |
| 2 | CD tray opens automatically | F16 | CLAMP switch (S4) NG (Check & Replace) |
| 3 | Does not startup when [PLAY] button is pressed | F17 | BOTTOM switch (S5) NG (Check & Replace) |
| 4 | Transmission error between CD servo LSI and micon | F26 | CD does not function.<br>This error occurs when the POWER is ON for the block and an error is detected after the transmission has started. |
| 5 | Startup fails even when you insert CD or the selected disc tray does not open | F27 | Tray 1 detect switch or Tray 2 detect switch NG & Replace) |
| 6 | Cannot insert CD | F28 | Tray 1 detect switch NG (Check & Replace) |
| 7 | Cannot eject CD | F29 | Check if disc is stuck. Tray 2 detect switch NG (Confirm & Replace) |
| 8 | The CD tray closes | H15 | CD disc tray detect switch NG (S3) (Check & Rep |

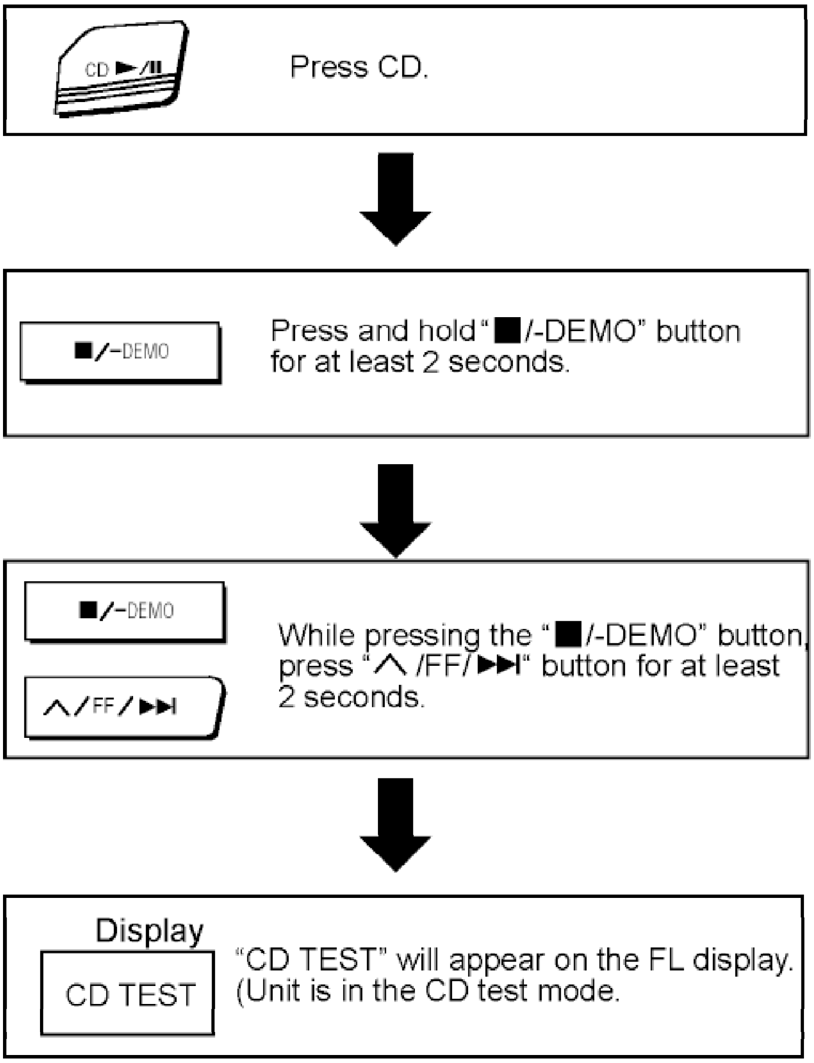
## 10.3. Power Supply related error detection

| No. | Error | Error Display | Problem condition |
|---|---|---|---|
| 1 | POWER AMP<br>output abnormal | F61 | When POWER is switched on, power become of<br>automatically.<br>During normal operation, if DC DET become L, P<br>shall become<br>L and the error display on the left shall be displa<br>(IC501) |

# 11. CD Test Mode Function

**This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.**

## 11.1. How to set CD test mode



Press CD.

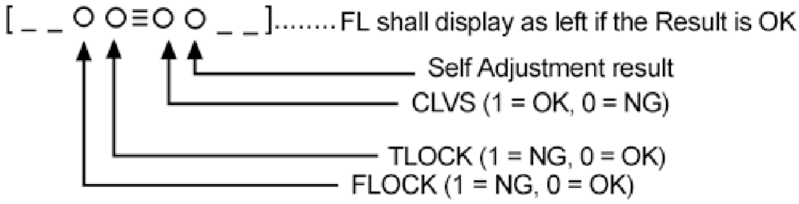
Press and hold "■/-DEMO" button for at least 2 seconds.

While pressing the "■/-DEMO" button, press "∧/FF/▶▶I" button for at least 2 seconds.

"CD TEST" will appear on the FL display. (Unit is in the CD test mode.

## 11.2. CD Automatically Adjustment result indication

**Under CD test mode, pressing the numeric key ‘0’ on the remote controller will display the auto adjustment result. FLOCK, TLOCK and CLVS status shall be shown as below:**



**During the above display, executing CD PLAY will display auto adjustment result for CD PLAY mode.**

# 12. Measurements and Adjustments

## 12.1. Cassette Deck Section

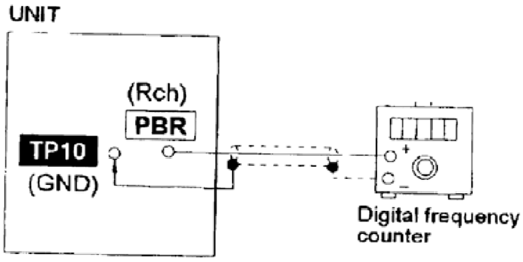
- **Measurement Condition**
- **Make sure head, capstan and press roller are clean.**
- **Judgeable room temperature 20 ± 5 °C (68 ± 9°F)**
- **Measuring instrument**
- **EVM (Electronic Volmeter)**
- **Digital quency counter**
- **Test Tape**
- **Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT**

### 12.1.1. Tape Speed Adjustment (Deck 1/2)

1. **Set the tape edit button to “NORMAL” position.**
2. **Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.**
3. **Adjust Motor VR (DECK 2) for the output value shown below.**

**Adjustment target: 2940 ~ 3060 Hz**
**(NORMAL speed)**

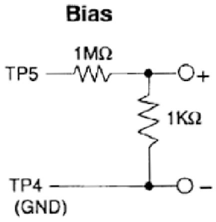
4. **After alignment, assure that the output frequency of the DECK 1 FWD are within ±60 Hz of the value of the output frequency of DECK 2 FWD.**

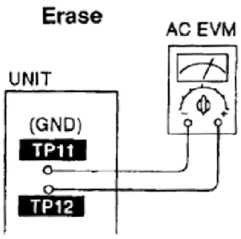

UNIT
(Rch)
PBR
TP10
(GND)
+
-
Digital frequency counter

### 12.1.2. Bias and Erase Voltage Check

1. **Set the unit “AUX” position.**
2. **Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to “REC” mode (use “ ● REC/STOP” key).**
3. **Measure and make sure that the output is within the standard value.**

| | |
|---|---|
| **Bias voltage for Deck 2** | **14 ± 4mV (Normal)** |
| **Erase voltage for Deck 2** | **80mV (Normal)** |

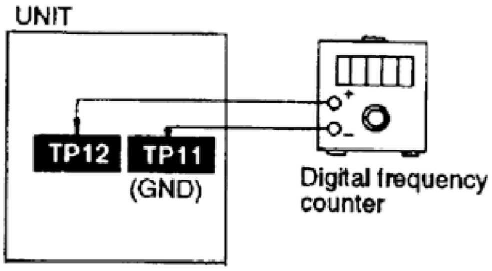

Bias
1MΩ
TP5
+
1KΩ
TP4
(GND)
-


Erase
AC EVM
UNIT
(GND)
TP11
TP12

### 12.1.3. Bias Frequency Adjustment (Deck 1/2)

1. **Set the unit to “AUX” position.**
2. **Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to “REC” mode ( ● use “REC/STOP” key).**
3. **Adjust L1002 so that the output frequency is within the standard value.**

| |
|---|
| **Standard Value: 97 ±8 kHz** |


UNIT
TP12
TP11
(GND)
+
-
Digital frequency counter

## 12.2. Tuner Section

### 12.2.1. AM-IF Alignment

### - AM-IF ALIGNMENT

| SIGNAL GENERATOR OR SWEEP GENERATOR | | RADIO DIAL SETTING | INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE) | ADJUSTMENT(Shown in Fig.3) | RE |
|---|---|---|---|---|---|
| CONNECTIONS | FREQUENCY | | | | |
| Fashion a loop of several turns of wire and radiate signal into loop of receiver. | 450 kHz 30% Mod. at 400Hz. | Point of non-interference (on/ about 600 kHz) | Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument. | Z102 (AM IFT) | Adju maxi outp |

### - AM-RF ALIGNMENT

| SIGNAL GENERATOR OR SWEEP GENERATOR | | RADIO DIAL SETTING | INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE) | ADJUSTMENT(Shown in Fig.1) | RE |
|---|---|---|---|---|---|
| CONNECTIONS | FREQUENCY | | | | |
| Fashion a loop of several turns of wire and radiate signal into loop of receiver. | 520 kHz | Tuning capacitor fully closed. | Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument. | Z101 (AM OSC Coil) | Adju maxi outp |
| Fashion a loop of several turns of wire and radiate signal into loop of receiver. | 600 kHz | Tuning capacitor fully open. | Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument. | Z101 (AM ANT Coil) | Adju maxi outp |

## 12.3. Alignment Points

**Cassette Deck Section**

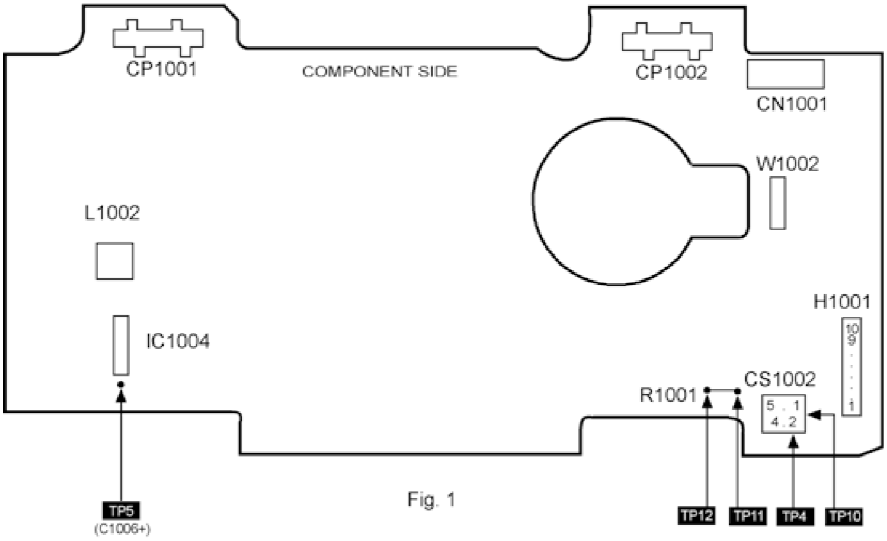

CP1001
COMPONENT SIDE
CP1002
CN1001
W1002
L1002
IC1004
H1001
10
9
1
R1001
CS1002
5 1
4 2
TP5
(C1006+)
TP12
TP11
TP4
TP10

Fig. 1

**Tuner Section**

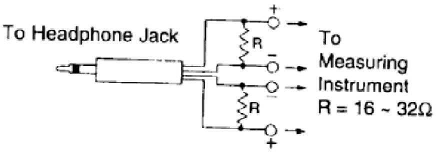

To Headphone Jack
+
R
−
−
R
+
To
Measuring
Instrument
R = 16 ~ 32Ω

Fig. 2

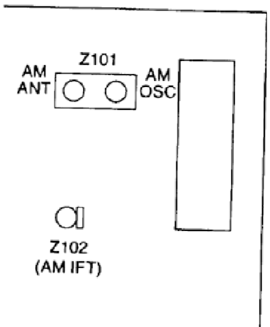

Z101
AM
ANT
AM
OSC
Z102
(AM IFT)

Fig. 3

# 13. Illustration of IC’s, Transistors and Diodes

# 14. Terminal Function of IC’s

## 14.1. IC701 (AN8885SBE1) Servo Amplifier

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | PDE | I | Tracking signal input 1 |
| 2 | PDF | I | Tracking signal input 2 |
| 3 | VCC | I | Power supply |
| 4 | PDA | I | Focus signal input terminal 1 |
| 5 | PDB | I | Focus signal input terminal 2 |
| 6 | LPD | I | APC amp input |
| 7 | LD | O | APC amp output |
| 8 | RF | O | RFsumming output |
| 9 | RFIN | I | Detector's input |
| 10 | CSBRT | I | Capacitor for OFTR connection |
| 11 | CEA | I | Capacitor for HPF amp connection |
| 12 | BDO | O | BDO output ("H" : drop out) |
| 13 | LDON | I | APC control |
| 14 | GND | — | Ground |
| 15 | /RFDET | O | NRFDET output ("L" : detection) |
| 16 | PDOWN | O | Power-down input |
| 17 | OFTR | O | OFTR output |
| 18 | NC | O | N.C. |
| 19 | ENV | O | 3T-ENV output |
| 20 | NC | I | N.C. |
| 21 | NC | I | N.C. |
| 22 | TEN | I | TE amp input |
| 23 | TEOUT | O | TE amp output |
| 24 | FEOUT | O | FE amp output |
| 25 | FEN | I | FE amp input |
| 26 | VREF | O | Reference voltage output |
| 27 | TBAL | I | Tracking balance control |
| 28 | FBAL | I | Focus balance control |

## 14.2. IC702 (MN662790RSC) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | BCLK | O | N.C. |
| 2 | LRCK | O | N.C. |
| 3 | SRDATA | O | N.C. |
| 4 | DVDD1 | I | Power supply input (for digital circuit) |
| 5 | DVSS1 | I | GND (for digital circuit) |
| 6 | TX | O | Digital audio interface signal output (Latches data at first transition) |
| 7 | MCLK | I | Microprocessor command clock signal input |
| 8 | MDATA | I | Microprocessor command data signal input |
| 9 | MLD | I | Microprocessor command load signal input |
| 10 | SENSE | O | Sense signal output (OFT, FESL,MAGEND, NAJEND,POSAD,SFG) (Not used, open) |
| 11 | /FLOCK | O | Focus servo feeding signal output (“L” : Feed) |
| 12 | /TLOCK | O | Tracking servo feeding signal output (“L” : Feed) |
| 13 | BLKCK | O | Sub-code block clock signal output (BLKCKf = 75Hz during normal playback) |
| 14 | SQCK | I | External clock signal input for sub-code Q resistor |
| 15 | SUBQ | O | Sub-code Q code output |
| 16 | DMUTE | I | Muting input (“H” : mute) |
| 17 | STAT | O | Status signal output (CRC,CUE,CLVS, TTSTVP,FCLV,SQCK) |
| 18 | /RST | I | Reset signal input |

| | | | |
|---|---|---|---|
| 18 | /RST | I | Reset signal input |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 19 | SMCK | O | 1/2-diveded clock signal of crystal osscillating at MSEL = “H” (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = “L” (fSMCK = 4.2336MHz) |
| 20 | CSEL | I | Frequency Selection Terminal H = 33.8688 MHz ; L = 16.9344 MHz |
| 21 | TRV | O | N.C |
| 22 | TVD | O | Traverse drive output |
| 23 | PC | O | Spindle motor ON output ("L" : ON) |
| 24 | ECM | O | Spindle motor drive signal output(forced mode output) |
| 25 | ECS | O | Spindle motor drive signal output<br>(servo error signal output) |
| 26 | KICK | O | N.C. |
| 27 | TRD | O | Tracking drive output |
| 28 | FOD | O | Focus drive output |
| 29 | VREF | I | D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input |
| 30 | FBAL | O | Focus balance adjustment output |
| 31 | TBAL | O | Tracking balance adjustment output |
| 32 | FE | I | Focus error signal input (analog input) |
| 33 | TE | I | Tracking error signal input (analog input) |
| 34 | RFENV | I | RF envelope signal input |
| 35 | VDET | I | Vibration detection signal input ("H" : detection) |
| 36 | OFT | I | Off-track signal input ("H" : off track) |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 37 | TRCRS | I | Track cross signal input |
| 38 | /RFDET | I | RF detection signal input ("L" : detection) |
| 39 | BDO | I | Dropout signal input ("H" : Dropout) |
| 40 | LDON | O | Laser on signal output ("H" : ON) |
| 41 | PLLF2 | I/O | N.C. |
| 42 | DSLF2 | O | Tracking Offset alignment output/DSL Balance Output (DA Output) |
| 43 | WVEL | O | N.C. |
| 44 | ARF | I | RF signal input |
| 45 | IREF | I | Reference current input |
| 46 | DRF | I | DSL bias terminal (Not used, open) |
| 47 | DSLF | I/O | DSL loop filter terminal |
| 48 | PLLF | I/O | PLL loop filter terminal |
| 49 | VCOF | I/O | VCO loop filter terminal |
| 50 | AVDD2 | I | Power supply input (for analog circuit) |
| 51 | AVSS2 | I | GND (for analog circuit) |
| 52 | EFM | - | EFM signal output |
| 53 | PCK | - | PLL extraction clock output (fPCK = 4.321 MHz during normal playback) |
| 54 | VCOF2 | I/O | VCO Loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit |
| 55 | SUBC | O | Sub-code serial data output |
| 56 | SBCK | I | Clock input for sub-code serial data |
| 57 | VSS | I | GND |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 58 | X1 IN | I | Crystal oscillating circuit input (f = 16.9344MHz) |
| 59 | X2 OUT | O | Crystal oscillating circuit input (f = 16.9344 MHz) |
| 60 | VDD | I | Power supply input (for oscillating circuit) |
| 61 | BYTCK | - | Byte clock output |
| 62 | /CLDCK | - | Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback) |
| 63 | FCLK | - | Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz) |
| 64 | IPFLAG | - | Interpolation flag output (“H” : Interpolation) |
| 65 | FLAG | - | Flag output |
| 66 | CLVS | - | Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo) |
| 67 | CRC | - | Sub-code CRC checked output (“H’ : OK, “L” :NG) |
| 68 | DEMPH | - | De-emphassis ON signal output (“H” : ON) |
| 69 | RESY | - | Frame re-synchronizing signal output |
| 70 | IOSEL | I | Mode Switching Terminal |
| 71 | /TEST | I | Test input |
| 72 | AVDD1 | I | Power supply input (for analog circuit) |
| 73 | OUTL | O | Left channel audio signal output |
| 74 | AVSS1 | I | GND |
| 75 | OUTR | O | Right channel audio signal output |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 76 | RSEL | I | RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RESL= "L") |
| 77 | IOVOD | I | 5V supply input |
| 78 | PSEL | I | Test terminal (connected to Gnd) |
| 79 | MSEL | I | SMCK oscillating frequency designation input (“L” :4.2336 MHz, “H”: 8.4672 MHz) |
| 80 | SSEL | I | SUBQ output mode select (“H”:Q-code buffer mode) |

## 14.3. IC703 (AN8739SBE2) Focus coil/ Tracking coil/ Traverse motor/ Spindle motor driver

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | /RST | - | RESET output terminal |
| 2 | NC | - | N.C. |
| 3 | IN2 | I | Motor Drive (2) input |
| 4 | PC2 | I | Turntable motor drive signal (“L :ON) |
| 5 | NC | - | N.C. |
| 6 | IN1 | I | Motor driver (1) input |
| 7 | NC | I | N.C. |
| 8 | PVCC1 | I | Power supply (1) for driver |
| 9 | PGND1 | - | Ground connection (1) for driver |
| 10 | NC | - | N.C. |
| 11 | D1- | O | Motor driver (1) reverse-action output |
| 12 | D1+ | O | Motor driver (1) forward-action output |
| 13 | D2- | O | Motor driver (2) reverse-action output |
| 14 | D2+ | O | Motor driver (2) forward-action output |
| 15 | D3- | O | Motor driver (3) reverse-action output |
| 16 | D3+ | O | Motor driver (3) forward-action output |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 17 | D4- | O | Motor driver (4) reverse-action output |
| 18 | D4+ | O | Motor driver (4) forward-action output |
| 19 | NC | - | N.C. |
| 20 | PGND2 | - | Ground connection (2) for driver |
| 21 | PVCC2 | I | Power supply (2) for driver |
| 22 | NC | - | N.C. |
| 23 | VCC | I | Power supply terminal |
| 24 | VREF | I | Reference voltage input |
| 25 | IN4 | I | Motor driver (4) input |
| 26 | IN3 | I | Motor driver (3) input |
| 27 | RSTIN | I | Reset terminal |
| 28 | NC | - | N.C. |

## 14.4. IC600 (C2BBGF000325) System Microprocessor

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | DECK2 | I | (RECI_F/MODE2/ RECI _R/HALF2) |
| 2 | KEY3 | I | Key 3 input |
| 3 | KEY2 | I | Key 2 input |
| 4 | KEY1 | I | Key 1 input |
| 5 | V_JOG | I | Volume jog AD detection |
| 6 | REG_IN | I | Region and Function Setting Input |
| 7 | EE_CS | O | EEPROM Chip Select |
| 8 | SER5 | O | EE_CLK/ EX1_CLK |
| 9 | SER4 | O | MK-_CLK |
| 10 | LM_L | I | Level meter left |
| 11 | LM_R | I | Level meter right |
| 12 | ST/DO/ SQCK | I/O | Tuner IF Data/Stereo Input and CD Sub Code Clock Output |
| 13 | SD | I | Tuner Signal Detect Input |
| 14 | SER3 | O | EE_DAT/ EX1_DAT |
| 15 | NC | 0 | No Connection |
| 16 | NC | O | No Connection |
| 17 | CNVss | - | Flash Mode Terminal (Connect To Ground) |
| 18 | /RESET | - | RESET Input |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 19 | XCOUT | - | 32.768 kHz Sub Clock |
| 20 | XCIN | - | 32.768 kHz Sub Clock |
| 21 | VSS | - | Ground (0V) |
| 22 | XIN | - | 4.19 MHz Main Clock |
| 23 | XOUT | - | 4.19 MHz Main Clock |
| 24 | VCC | - | Power Supply (+5V) |
| 25 | MBP1 | O | MPU Beat Proof Output 1 |
| 26 | MBP2 | O | MPU Beat Proof Output 2 |
| 27 | PLLCK | O | Tuner PLL Clock Output |
| 28 | PLLDA | O | Tuner PLL Data Output |
| 29 | RMT | I | Remote Control Input |
| 30 | NC | O | No Connection |
| 31 | PLLCE | O | Tuner PLL Chip Enable |
| 32 | SYNC | I | AC Failure Detect Input |
| 33 | DCDET | I | DC Detect Input |
| 34 | NC | O | No Connection |
| 35 | NC | O | No Connection |
| 36 | NC | O | No Connection |
| 37 | NC | O | No Connection |
| 38 | NC | O | No Connection |
| 39 | NC | O | No Connection |
| 40 | MM_RST | O | Mechacon Reset Control |
| 41 | PCONT | O | Main Transformer Control Output |
| 42 | LED_2 | O | Backlight LED2 Control |
| 43 | LED_3 | O | Backlight LED3 Control |
| 44-77 | SEG38 - SEG5 | O | Segment Drive Output (Anode Drive Output) |
| 78-80 | REG4/ SEG11 - SEG2/ REG9 | O | Segment Drive Output (Anode Drive Output) |
| 81 | SEG1/ REG8 | O | Segment Drive Output (Regional/ Function Setting Use) |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 82-88 | GRID7/ REG7- GRID1- REG1 | O | Digit Drive Output (Grid Drive Output) For Regional Setting/ Function Selection Use |
| 89 | VEE | - | Power Supply (-30V) |
| 90 | MM_DIN | I | Serial Data From Mechacon (INPUT) |
| 91 | MM_DOUT | O | Serial Data To Mechacon (OUTPUT) |
| 92 | MM_CLK | I | Serial Clock From Mechacon |
| 93 | MM_REQ | O | Opecon Request to Mechacon |
| 94 | MM_CS | I | Mechacon Chip Select to Opecon |
| 95 | SER2 | O | (ASP_CLK) |
| 96 | SER1 | O | (ASP_DAT/ MK_DAT) |
| 97 | AVSS | - | Analog Ground (0V) |
| 98 | VREF | - | Reference for A-D |
| 99 | TPS | I | TPS/Chrome1/ Chrome2 |
| 100 | DECK1 | I | (Half1/Mode/Photo1/ Photo 2) |

# 15. Block Diagram

# 16. Schematic Diagram

**(All schematic diagrams may be modified at any time with the development of the new technology)**

**Note:**

S600

**: Power switch**

S601

**: Display switch**

S602

**: Disc 1 switch**

S603

**: Disc 2 switch**

S604

**: Disc 3 switch**

S605

**: Disc 4 switch**

S606

**: Disc 5 switch**

S607

**: CD Open/ Close switch**

S701

**: Reset switch**

S910

**: CD Play switch**

S911

**: Tape Play switch**

S912

**: Tuner / Band switch**

S913

**: AUX switch**

S914

**: Super Sound EQ switch**

S920

**: Deck 2 Open switch**

S921

**: FF switch**

S922

**: Stop/ Demo switch**

S923

**: REW switch**

S924

**: Deck 1 Open switch**

S925

**: Deck 1/2 switch**

S926

**: Rec / Stop switch**

S928
**: Preset EQ switch/Subwoofer switch**

S951
**: Mode switch**

S952
**: Half switch**

S953
**: CR02 switch**

S971
**: Mode switch**

S972
**: Half switch**

S973
**: CR02 switch**

S974
**: Recinh_r switch**

S975
**: Recinh_f switch**

S976
**: Metal switch**

- **The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveformsdepending upon the internal impedance of the tester or the measuring unit.**

**No mark : Playback**
**<< >> : Rec**
**< > : FM**
**(( )) : CD**

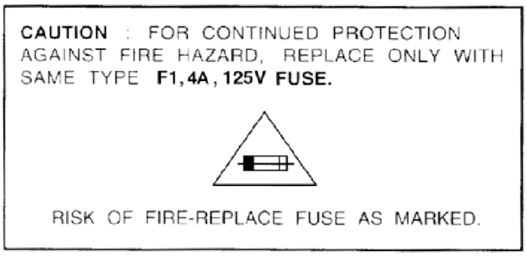
- **Importance safety notice :**
  **Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound**

**(capacitors), low-noise (resistors), etc. are used. Whenreplacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.**

**Caution !**

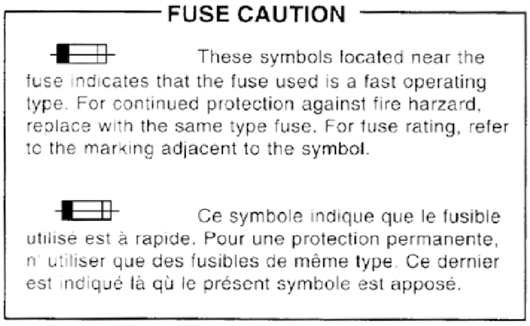
**IC, LSI and VLSI are sensitive to static electricity.**
**Secondary trouble can be prevented by taking care during repair.**

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**



CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **F1,4A,125V FUSE.**

RISK OF FIRE-REPLACE FUSE AS MARKED.



**FUSE CAUTION**

These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

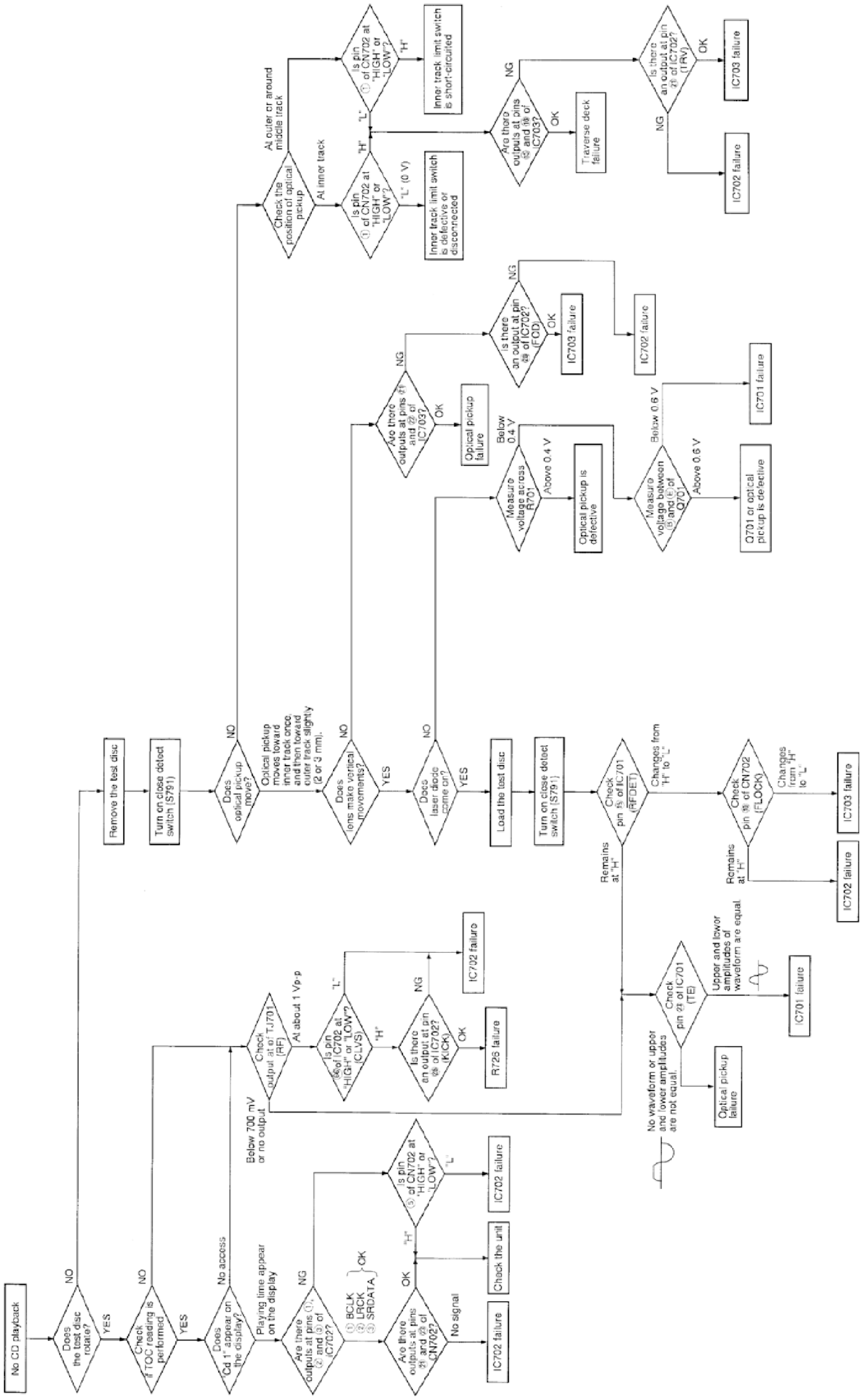
Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

## 17. Printed Circuit Board

**Note: Circuit board diagrams may be modified at any time with the development of new technology.**

## 18. Wiring Connection Diagram

## 19. Troubleshooting Guide


No CD playback
Does the test disc rotate?
NO
YES
Remove the test disc
Turn on close detect switch (S791)
Does optical pickup move?
NO
Check the position of optical pickup
At outer or around middle track
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
Inner track limit switch is short-circuited
"L"
At inner track
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
"L" (0 V)
Inner track limit switch is defective or disconnected
Are there outputs at pins ⑫ and ⑯ of IC703?
NG
OK
Traverse deck failure
Is there an output at pin ㉑ of IC702? (TRV)
NG
OK
IC702 failure
IC703 failure
Optical pickup moves toward inner track once, and then toward outer track slightly (2 or 3 mm).
Does lens make vertical movements?
NO
Are there outputs at pins ㉑ and ㉒ of IC703?
NG
OK
Optical pickup failure
Is there an output at pin ㉓ of IC702? (FOD)
NG
OK
IC703 failure
IC702 failure
YES
Does laser diode come on?
NO
Measure voltage across R701
Below 0.4 V
Above 0.4 V
Optical pickup is defective
Measure voltage between ⑧ and ⓔ of Q701
Below 0.6 V
Above 0.6 V
IC701 failure
Q701 or optical pickup is defective
YES
Load the test disc
Turn on close detect switch (S791)
Check pin ⑮ of IC701 (RFDET)
Changes from "H" to "L"
Check pin ⑯ of CN702 (FLOCK)
Changes from "H" to "L"
IC703 failure
Remains at "H"
IC702 failure
Remains at "H"
Check pin ㉓ of IC701 (TE)
Upper and lower amplitudes of waveform are equal.
IC701 failure
No waveform or upper and lower amplitudes are not equal.
Optical pickup failure
Check if TOC reading is performed
NO
YES
Check output at of TJ701 (RF)
At about 1 Vp-p
Is pin ⑯ of IC702 at "HIGH" or "LOW"? (CLVS)
"L"
IC702 failure
"H"
Is there an output at pin ㉖ of IC702? (KICK)
NG
OK
R726 failure
Below 700 mV or no output
Does "Cd 1" appear on the display?
No access
Playing time appear on the display
Are there outputs at pins ①, ② and ③ of IC702?
① BCLK
② LRCK
③ SRDATA
OK
NG
Is pin ⑤ of CN702 at "HIGH" or "LOW"?
"L"
IC702 failure
"H"
Check the unit
Are there outputs at pins ㉑ and ㉓ of CN702?
OK
No signal
IC702 failure

# 20. Parts Location and Replacement Parts List

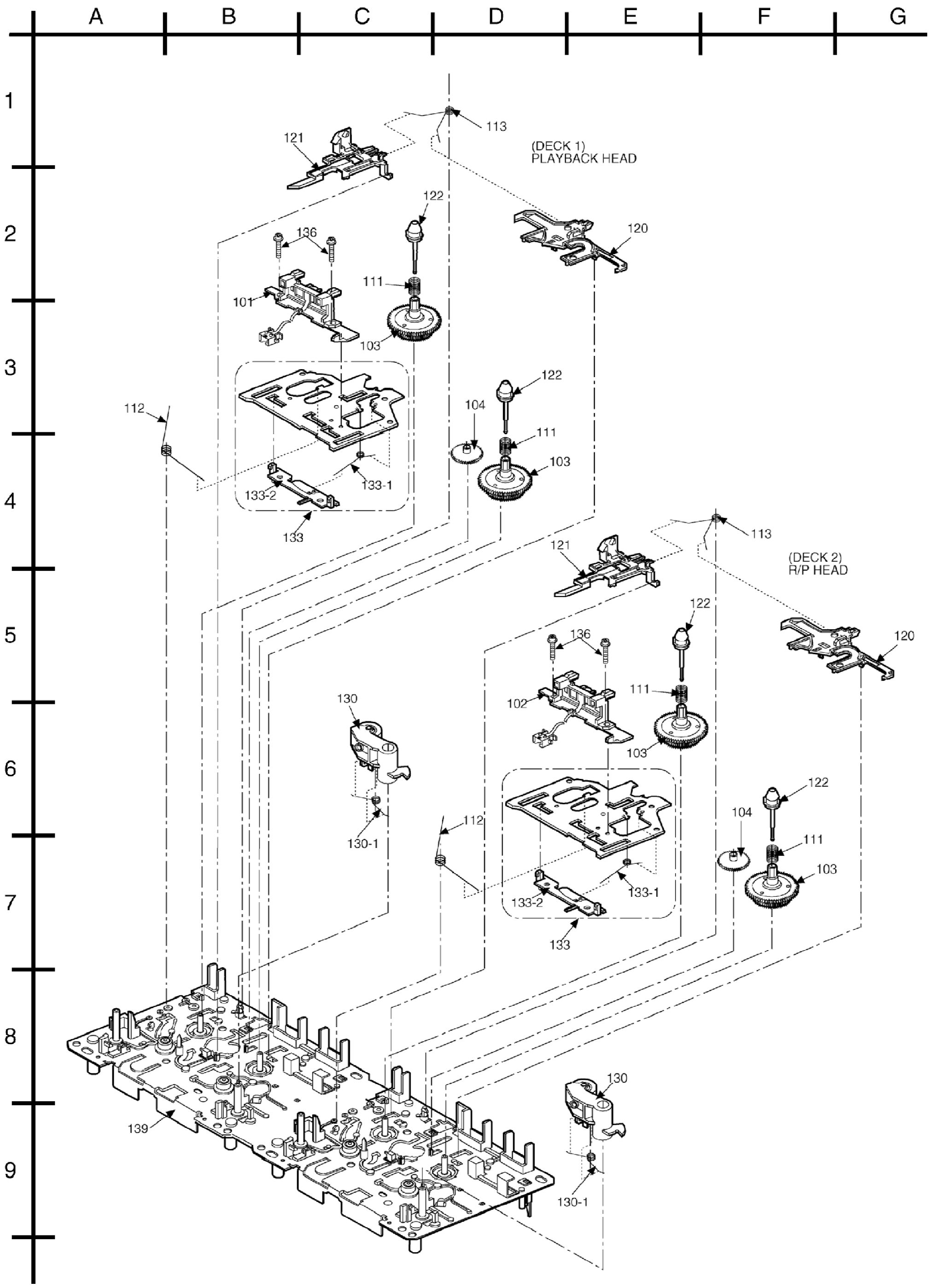
**Notes:**

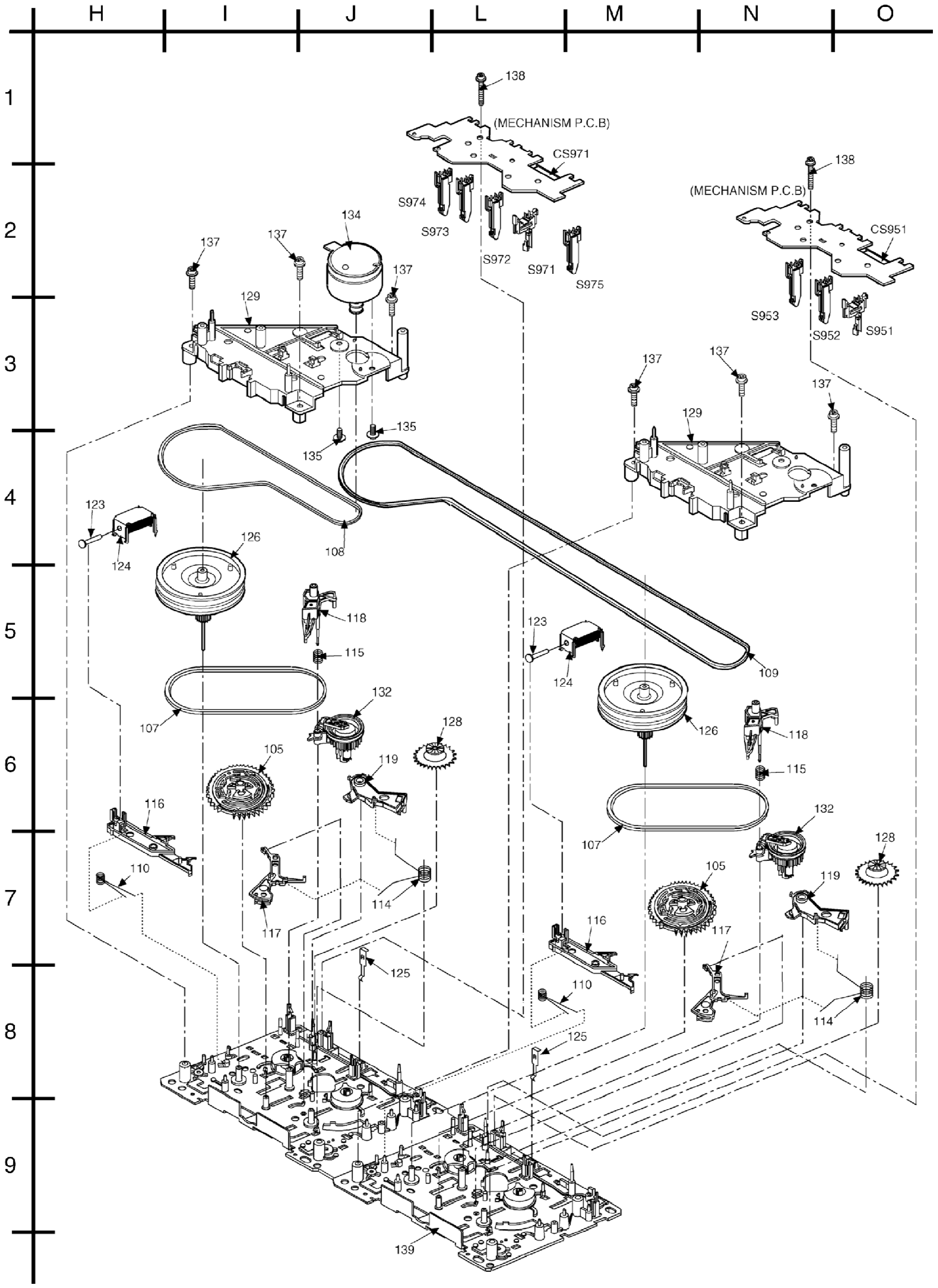
- **Important safety notice:**
  **Components identified by ⚠ mark have special characteristics important for safety.**
  **Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.**
  **When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.**
- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to teh cover page for area or colour)**
  **Parts without these indications can be used for all areas.**
- **Warning: This product uses a laser diode. Refer to caution statements on “Precaution of Laser Diode”.**
- **Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availabilityis dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
- **[M] Indicates in the Remarks columns indicates parts supplied by MESA.**
- **The “(SF)” mark denotes the standard part.**
- **Remote Control Unit: Supply period for three years from terminal of production.**
- **Reference for O/I book languages are as follows:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ar :** | **Arabic** | **Du :** | **Dutch** | **It :** | **Italian** | **Sp :** | **Spanish** |
| **Cf :** | **Canadian French** | **En :** | **English** | **Ko :** | **Korean** | **Sw :** | **Swedis** |
| **Cz :** | **Czech** | **Fr :** | **French** | **Po :** | **Polish** | **Co :** | **Traditio Chinese** |
| **Da :** | **Danish** | **Ge :** | **German** | **Ru :** | **Russian** | **Cn :** | **Simplifi Chinese** |

# 20.1. Deck Mechanism (RAA4501-1S)

## 20.1.1. Deck Mechanism Parts Location


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
113
121
(DECK 1)
PLAYBACK HEAD
122
120
136
111
101
103
122
104
112
111
103
133-1
133-2
133
113
121
(DECK 2)
R/P HEAD
122
136
120
130
111
102
103
122
104
112
130-1
111
103
133-1
133-2
133
130
139
130-1


H
I
J
L
M
N
O
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2
3
4
5
6
7
8
9
138
(MECHANISM P.C.B)
CS971
S974
S973
S972
S971
S975
138
(MECHANISM P.C.B)
CS951
S953
S952
S951
134
137
137
137
137
129
137
137
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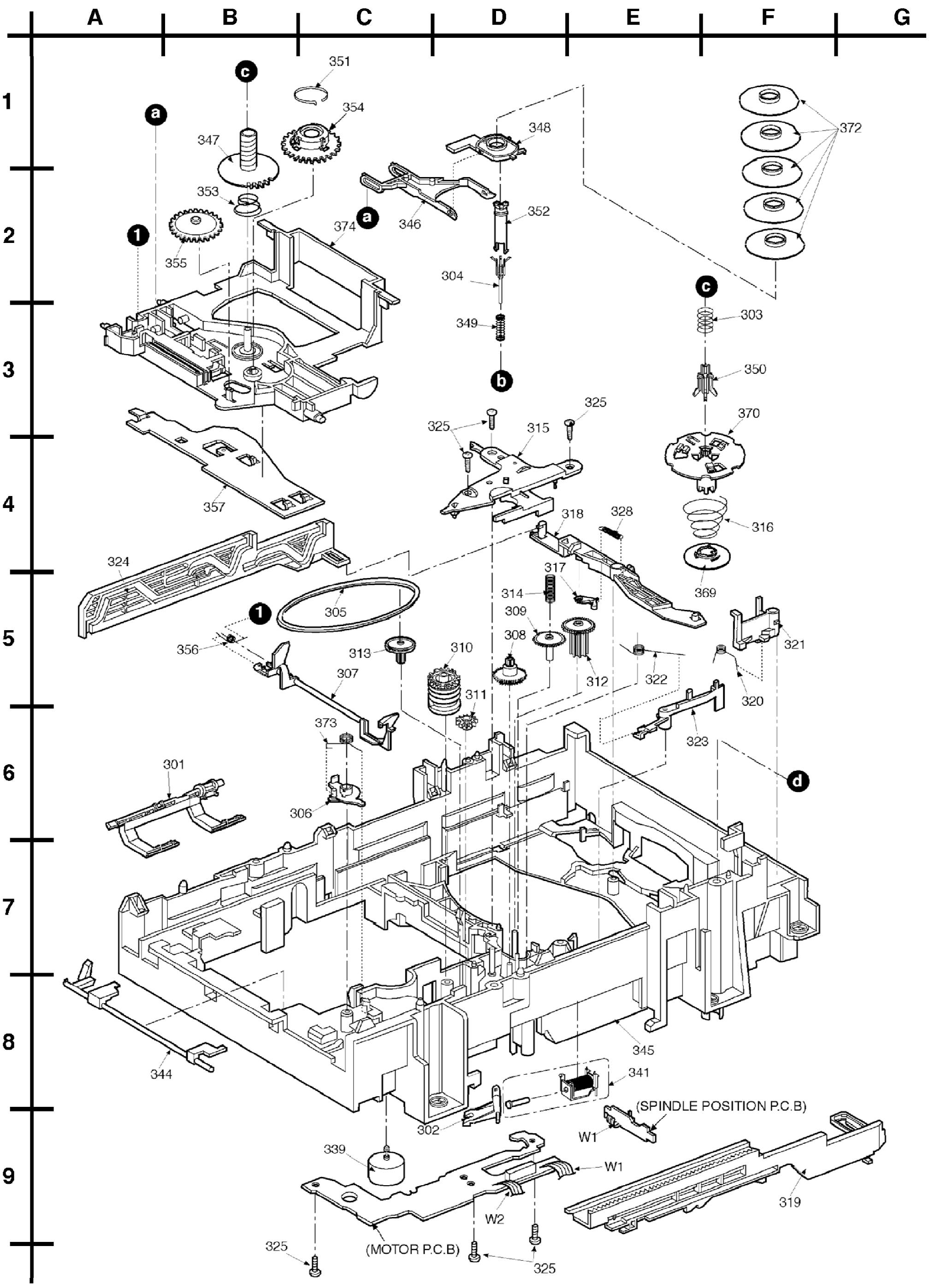
125
139

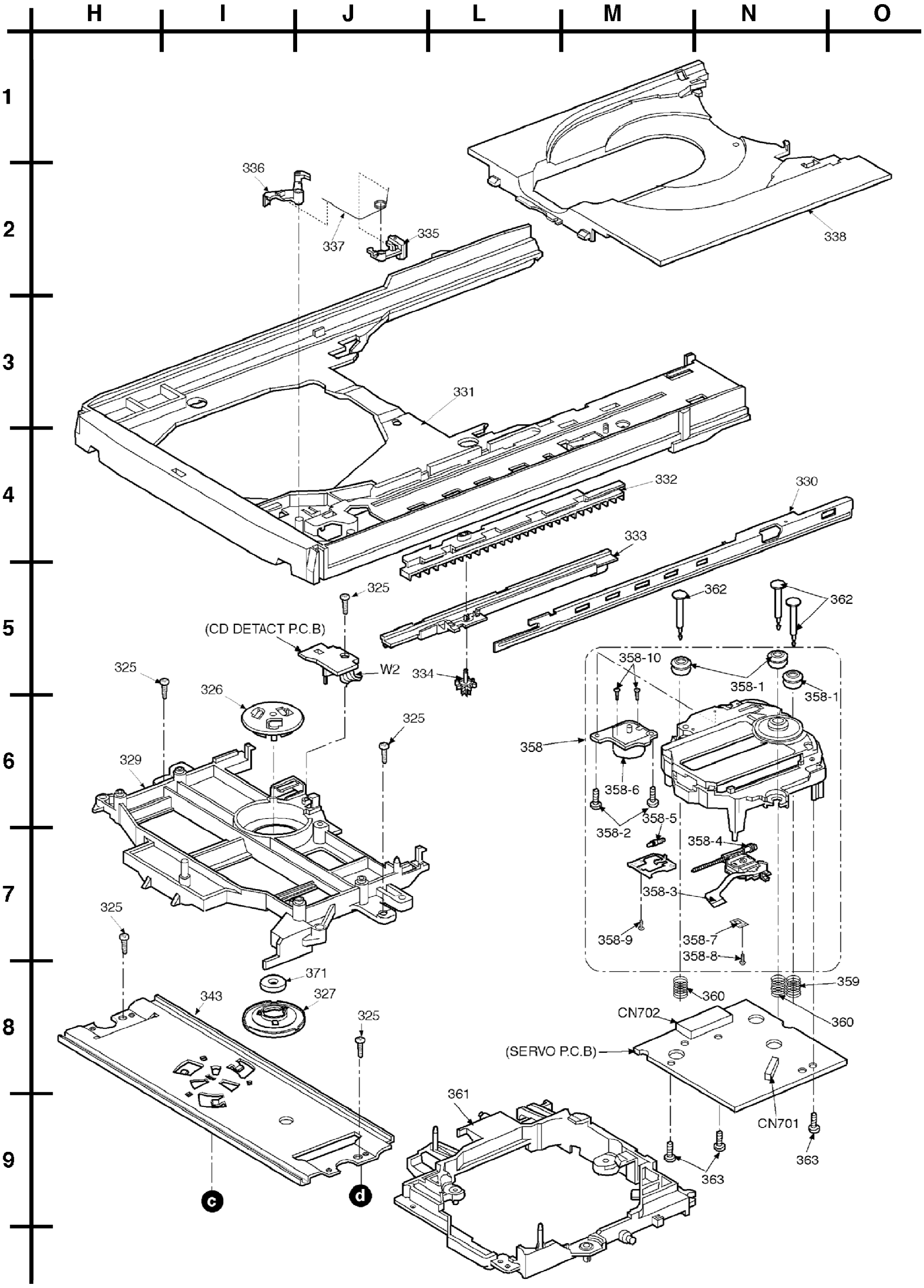
## 20.1.2. Deck Mechanism Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | CASSETTE DECK | |
| | | | |
| 101 | RED0069 | HEAD BLOCK UNIT | [M] |
| 102 | RED0070 | R/P HEAD BLOCK UNIT | [M] |
| 103 | RDG0300 | REEL BASE GEAR | [M] |
| 104 | RDG0301 | WINDING RELAY GEAR | [M] |
| 105 | RDK0026 | MAIN GEAR | [M] |
| 107 | RDV0033-4 | WINDING BELT | [M] |
| 108 | RDV0064 | CAPSTAN BELT | [M] |
| 109 | RDV0071 | MAIN BELT B | [M] |
| 110 | RMB0312 | TRIGGER LEVER SPRING | [M] |
| 111 | RMB0400 | REEL SPRING | [M] |
| 112 | RMB0403 | HEAB PANEL SPRING | [M] |
| 113 | RMB0404 | BRAKE ROD SPRING | [M] |
| 114 | RMB0406 | FR LEVER SPRING | [M] |
| 115 | RMB0408 | THRUST SPRING | [M] |
| 116 | RML0370 | TRIGGER LEVER | [M] |
| 117 | RML0371 | FR LEVER | [M] |
| 118 | RML0372 | WINDING LEVER | [M] |
| 119 | RML0374 | EJECT LEVER | [M] |
| 120 | RMM0131 | BRAKE ROD | [M] |
| 121 | RMM0133 | EJECT ROD | [M] |
| 122 | RMQ0519 | REEL HUB | [M] |
| 123 | RMS0398 | MOVING CORE | [M] |
| 124 | RSJ0003 | PLUNGER ASS’Y | [M] |
| 125 | RMC0061 | PACK SPRING | [M] |
| 126 | RXF0049 | FLYWHEEL F ASS’Y | [M] |
| 128 | RXG0040 | FF RELAY GEAR ASS’Y | [M] |
| 129 | RMK0283A-J | SUB-CHASSIS | [M] |
| 130 | RXL0124 | PINCH ROLLER F ASS’Y | [M] |
| 130-1 | RMB0401 | PINCH ARM SPRING F | [M] |
| 132 | RXL0126 | WINDING ARM ASS’Y | [M] |
| 133 | RXQ0412 | HEAD PANEL ASS’Y | [M] |
| 133-1 | RMB0405 | FR ROD SPRING | [M] |
| 133-2 | RMM0132 | FR ROD | [M] |
| 134 | REM0088 | CAP MOTOR ASS’Y | [M] |
| 135 | RHD26022 | MOTOR SCREW | [M] |
| 136 | XTW2+5L | HEAD BLOCK UNIT SCRE | [M] |
| 137 | XTW26+10S | SUB-CHASSIS SCREW | [M] |
| 138 | XYC2+JF17 | PCB EARTH SCREW | [M] |
| 139 | RFKJAA4501-S | CHASSIS ASS’Y | [M] |

## 20.2. CD Loading Mechanism (RD-DAC026-S)

### 20.2.1. CD Loading Mechanism Parts Location


A
B
C
D
E
F
G
c
a
a
c
b
d
(SPINDLE POSITION P.C.B)
W1
W1
W2
(MOTOR P.C.B)


H
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M
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O
1
2
3
4
5
6
7
8
9
336
337
335
338
331
332
330
333
325
362
362
(CD DETACT P.C.B)
325
W2
334
358-10
358-1
358-1
326
325
358
329
358-6
358-2
358-5
358-4
358-3
325
358-9
358-7
358-8
371
359
343
327
360
325
CN702
360
(SERVO P.C.B)
361
CN701
363
363
c
d

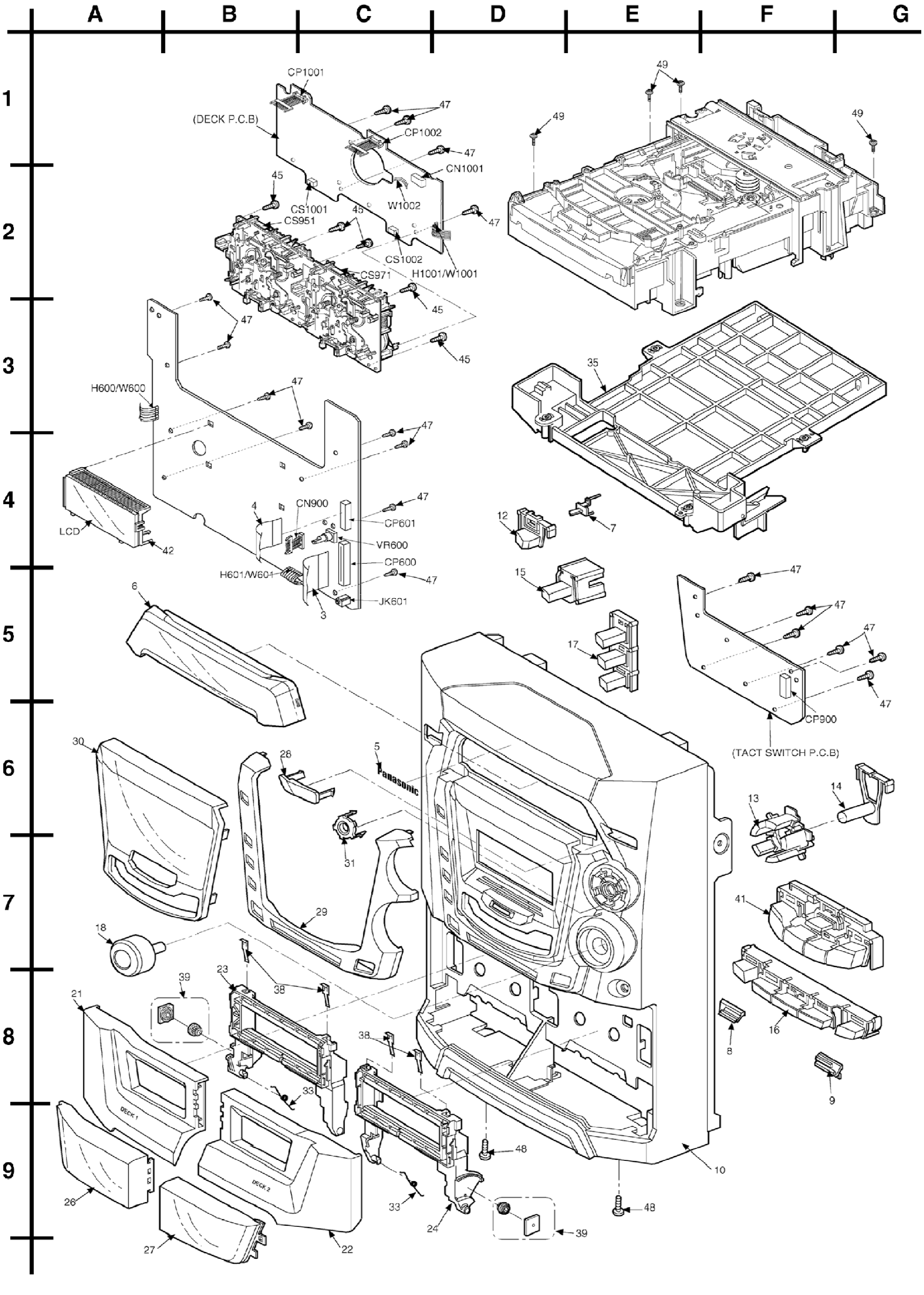
## 20.2.2. CD Loading Mechanism Parts List

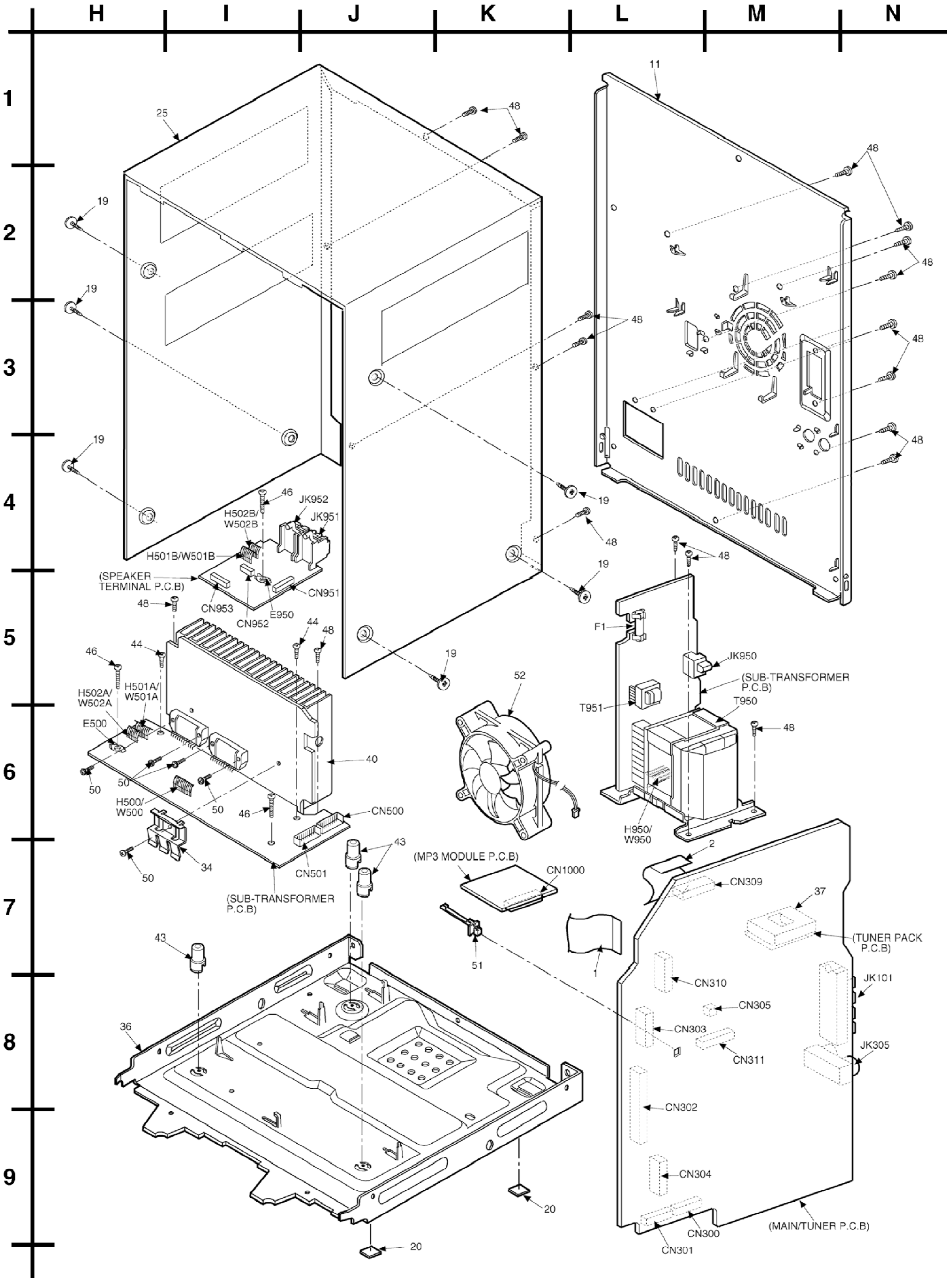
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | TRAVERSE DECK | |
| | | | |
| 301 | RML0517 | TIMING LEVER | [M] |
| 302 | RML0516 | PLUNGER LEVER | [M] |
| 303 | RMB0551 | UPPER SPINDLE SPRING | [M] |
| 304 | RMQ0744 | LOWER HOOK | [M] |
| 305 | RDV0056 | BELT | [M] |
| 306 | RML0525 | FRONT LOCK LEVER | [M] |
| 307 | RML0526 | DISC LEVER | [M] |
| 308 | RDG0424 | DRIVE GEAR | [M] |
| 309 | RDG0425 | CHANGE GEAR | [M] |
| 310 | RDG0427 | TRAVERSE CAM GEAR | [M] |
| 311 | RDG0428 | TRAVERSE RELAY GEAR | [M] |
| 312 | RDG0426 | UP/DOWN GEAR | [M] |
| 313 | RDG0429 | PULLEY GEAR | [M] |
| 314 | RMB0549-1 | CHANGE GEAR SPRING | [M] |
| 315 | RMQ0748 | PITCH PLATE | [M] |
| 316 | RMB0553 | PUSH SPRING | [M] |
| 317 | RML0530 | ASSIST LEVER | [M] |
| 318 | RML0518 | CONNECTION LEVER | [M] |
| 319 | RMM0201 | SLIDE PLATE 1 | [M] |
| 320 | RME0258 | REAR LOCK SPRING | [M] |
| 321 | RML0521 | REAR LOCK | [M] |
| 322 | RME0257 | TRAY LOCK LEVER SPRI | [M] |
| 323 | RML0520 | TRAY LOCK | [M] |
| 324 | RMM0202 | SLIDE PLATE 2 | [M] |
| 325 | XTB3+10J | SCREW | [M] |
| 326 | RMR0334 | FIXED PLATE | [M] |
| 327 | RMR0624-W2 | CLAMPER | [M] |
| 328 | RMB0561 | ASSIST LEVER SPRING | [M] |
| 329 | RMR1121-K | MECHA COVER | [M] |
| 330 | RMA1110-2 | TRAY ANGLE | [M] |
| 331 | RMR1122-H1 | TRAY BASE | [M] |
| 332 | RMM0204 | CARRIER | [M] |
| 333 | RMM0203 | DRIVE RACK | [M] |
| 334 | RDG0432 | SPEED UP GEAR | [M] |
| 335 | RML0524 | SLIDE LOCK | [M] |
| 336 | RML0523 | CARRIER LOCK | [M] |
| 337 | RME0260-1 | SLIDE LOCK SPRING | [M] |
| 338 | RMR1123-H | TRAY | [M] |
| 339 | RXQ0595 | MOTOR SUB ASS’Y | [M] |
| 341 | RSJ0003 | SOLENOLD ASS’Y | [M] |
| 343 | RMA1106 | UPPER PLATE | [M] |
| 344 | RML0519 | 8CD LEVER | [M] |
| 345 | RFKNAAK27GCS | MECHA BASE ASS’Y | [M] |
| 346 | RML0522 | TURNING STOPPER | [M] |
| 347 | RMQ0745 | LOWER SPINDLE | [M] |
| 348 | RMQ0746 | UP/DOWN BASE | [M] |
| 349 | RMB0550 | LOWER SPINDLE SPRING | [M] |
| 350 | RMQ0747 | UPPER HOOK | [M] |
| 351 | RME0263 | CLICK SPRING | [M] |
| 352 | RMQ0743 | SPINDLE SHAFT | [M] |
| 353 | RMB0552 | CUSHION SPRING | [M] |
| 354 | RDG0430 | RELAY GEAR ‘A’ | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| 355 | RDG0431 | RELAY GEAR ‘B’ | [M] |
| 356 | RME0262 | DISK LEVER SP. | [M] |
| 357 | RMA1105 | SUPPORT PLATE | [M] |
| 358 | RAE0152Z-3 | TRAVERSE | [M] |
| 358-1 | SHGD113-1 | FLOATING CUSHION | [M] |
| 358-2 | SNSD38 | TRV MOTOR ASSY SCREW | [M] |
| 358-3 | RAF0150A-4S | OPU ASS’Y | [M] |
| 358-4 | RDG0247 | DRIVE GEAR | [M] |
| 358-5 | RDG0248 | RELAY GEAR | [M] |
| 358-6 | RXQ0339 | TRAVERSE MOTOR ASSY | [M] |
| 358-7 | RXQ0304-1 | NUT PLATE ASSY | [M] |
| 358-8 | XQN17+CG5 | NUT PLATE ASSY SCREW | [M] |
| 358-9 | XQS2+A3FZ | SPINDLE MOTOR SCREW | [M] |
| 358-10 | XQS17+A35FZ | TRAVERSE MOTOR SCREW | [M] |
| 359 | RME0142 | FLOATING SPRING A | [M] |
| 360 | RME0109 | FLOATING SPRING B | [M] |
| 361 | RMR1124A-K | TRAVERSE CHASSIS | [M] |
| 362 | RMS0632 | TRAVERSE PIN | [M] |
| 363 | XTN2+6G | SCREW | [M] |
| 369 | RMX0141 | PUSH SPACER | [M] |
| 370 | RMQ0749 | UPPER SPINDLE | [M] |
| 371 | RHM0001 | MAGNET | [M] |
| 372 | RMX0140 | DISC SPACER | [M] |
| 373 | RME0261 | FRONT LOCK SPRING | [M] |
| 374 | RMQ0742 | SPINDLE BASE | [M] |

## 20.3. Cabinet

### 20.3.1. Cabinet Parts Location


A
B
C
D
E
F
G
CP1001
(DECK P.C.B)
CP1002
CN1001
W1002
CS1001
CS951
CS1002
H1001/W1001
CS971
H600/W600
CN900
CP601
LCD
VR600
CP600
H601/W601
JK601
CP900
(TACT SWITCH P.C.B)
Panasonic
DECK 1
DECK 2


H
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1
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3
4
5
6
7
8
9
11
25
48
19
46
JK952
JK951
H502B/ W502B
H501B/W501B
(SPEAKER TERMINAL P.C.B)
CN953
CN952
E950
CN951
44
40
H502A/ W502A
H501A/ W501A
E500
50
H500/ W500
CN500
CN501
34
43
(SUB-TRANSFORMER P.C.B)
36
20
52
F1
JK950
(SUB-TRANSFORMER P.C.B)
T951
T950
H950/ W950
2
(MP3 MODULE P.C.B)
CN1000
51
1
CN309
37
(TUNER PACK P.C.B)
JK101
CN310
CN305
CN303
CN311
JK305
CN302
CN304
CN300
CN301
(MAIN/TUNER P.C.B)

## 20.3.2. Cabinet Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | CABINET AND CHASSIS | |
| | | | |
| 1 | REEX0171 | 30P FFC WIRE | [M] |
| 2 | REEX0083 | 14P FFC WIRE | [M] |
| 3 | REEX0144 | 30P FFC | [M] |
| 4 | REEX0145 | 17P FFC | [M] |
| 5 | RGB0113-N | PANA BADGE (HOOK TYP | [M] |
| 6 | RGKX0105-A | CD LID | [M] |
| 7 | RGLX0043-Q | POWER LIGHT CHIP | [M] |
| 8 | RGLX0046-Q | LIGHTING PIECE (L) | [M] |
| 9 | RGLX0047-Q | LIGHTING PIECE (R) | [M] |
| 10 | RGPX0053E-S | FRONT PANEL | [M] |
| 11 | RGRX0020E-AA | REAR PANEL | [M]P |
| 11 | RGRX0020E-BA | REAR PANEL | [M]PC |
| 12 | RGUX0417-S | POWER BUTTON | [M] |
| 13 | RGUX0424-S | DISC BUTTON | [M] |
| 14 | RGUX0425-S | DISC EJECT BUTTON | [M] |
| 15 | RGUX0426-S | DISPLAY BUTTON | [M] |
| 16 | RGUX0428-S | DECK BUTTON | [M] |
| 17 | RGUX0431-S | TAPE SELECT BUTTON | [M] |
| 18 | RGWX0062-S | VOLUME KNOB | [M] |
| 19 | RHD30002-H | SCREW | [M] |
| 20 | RKA0059-K | LEG RUBBER | [M] |
| 21 | RKFX0091-S | CASS. LID (L) | [M] |
| 22 | RKFX0092-S | CASS. LID (R) | [M] |
| 23 | RKFX0093-K | CASS. HOLDER (L) | [M] |
| 24 | RKFX0094-K | CASS. HOLDER (R) | [M] |
| 25 | RKMX0066A-S | TOP CABINET (BENT) | [M] |
| 26 | RKWX0163-H | CASS. WINDOW (L) | [M] |
| 27 | RKWX0164-H | CASS. WINDOW (R) | [M] |
| 28 | RKWX0165-Q | REMOTE SENSOR WINDOW | [M] |
| 29 | RGKX0104-A | FL ORNAMENT | [M] |
| 30 | RKWX0167-H | FL WINDOW | [M] |
| 31 | RKWX0168-A | DISC BUTTON ORNAMENT | [M] |
| 33 | RMBX0018 | CASS. OPEN SPRING | [M] |
| 34 | RMCX0021 | TRANSISTOR CLIP | [M] |
| 35 | RMKX0054 | CD CHASSIS | [M] |
| 36 | RMKX0055 | BOTTOM CHASSIS | [M] |
| 37 | RSC0027-2 | TUNER PACK | [M] |
| 38 | RUS757ZAA | CASSETTE HALF SPRING | [M] |
| 39 | RXGX0001 | DAMPER GEAR | [M] |
| 40 | RXXX0029A | HEATSINK UNIT | [M] |
| 41 | RYQX0052-S | FUNCTION BUTTON UNIT | [M] |
| 42 | RYQX0054-1 | FL HOLDER UNIT | [M] |
| 43 | SHE187-5J | PCB SUPPORT | [M] |
| 44 | XTB3+10J | SCREW | [M] |
| 45 | XTB3+10JFZ | SCREW | [M] |
| 46 | XTB3+20J | SCREW | [M] |
| 47 | XTBS26+10J | SCREW | [M] |
| 48 | XTBS3+8JFZ1 | SCREW | [M] |
| 49 | XTW3+12T | SCREW | [M] |
| 50 | XTW3+15T | SCREW | [M] |
| 51 | RMR1093-W | P-BASE SUPPORT | [M] |
| 52 | REM0072-3 | FAN | [M] |

## 20.4. Electrical Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | PRINTED CIRCUIT BOARD | |
| | | | |
| | REPX0145C | CD SERVO P.C.B. | [M](RTL) |
| | REPX0270B | MAIN / TUNER P.C.B. | [M](RTL) |
| | REPX0303A | PANEL P.C.B. | [M](RTL) |
| | REPX0303A | TACT SWITCH P.C.B. | [M](RTL) |
| | REPX0272C | SPEAKER TERMINAL P.C.B. | [M](RTL) |
| | REPX0282A | DECK P.C.B. | [M](RTL) |
| | REPX0108H | MECHANISM (DECK 1) P.C.B. | [M](RTL) |
| | REPX0108F | MECHANISM (DECK 2) P.C.B. | [M](RTL) |
| | REPX0273D | SUB-TRANSFORMER P.C.B. | [M](RTL) - P |
| | REPX0273C | SUB-TRANSFORMER P.C.B. | [M](RTL) - PC |
| | REPX0272C | POWER P.C.B. | [M](RTL) |
| | REP2578A-N | CD LOADING P.C.B. | [M](RTL) |
| | REP2578A-N | CD DETECT P.C.B. | [M](RTL) |
| | REP2578A-N | SPINDLE POSITION P.C.B. | [M](RTL) |
| | REP1999B | TUNER PACK P.C.B. | [M](RTL) |
| | REP3122A-T | MP3 MODULE P.C.B. | [M](RTL) |
| | | | |
| | | INTEGRATED CIRCUITS | |
| | | | |
| IC1 | TA7291P | IC DRIVE | [M] |
| IC101 | LA1833NMNTLM | IC IF & MPX | [M] |
| IC102 | LC72131MDTRM | IC PLL | [M] |
| IC300 | C1BB00000654 | IC ASP | [M] |
| IC302 | C0AABB000117 | IC OP-AMP (HP AMP) | [M] |
| IC500 | RSN35H2-P | IC HIC | [M] ⚠ |
| IC501 | RSN35H2-P | IC HIC | [M] ⚠ |
| IC600 | C2BBGF000325 | IC MICRO-P | [M] |
| IC701 | AN8885SBE1 | IC SERVO AMP | [M] |
| IC702 | MN662790RSC | IC SERVO PROCESSOR | [M] |
| IC703 | AN8739SBE2 | IC 4CH DRIVER | [M] |
| IC800 | C2BBGF000323 | IC MICRO-P | [M] |
| IC801 | TC74HC4050EL | IC LEVEL SHIFTER | [M] |
| IC802 | TC74HC157AFT | IC QUAD 2 CHANNEL MULTIPLEXOR | [M] |
| IC803 | BA033T | IC VOLTAGE REGULATOR | [M] ⚠ |
| IC804 | SI8050JLF118 | IC VOLTAGE REGULATOR | [M] ⚠ |
| IC951 | 0N2180RLC1 | IC PHOTO INTERRUPTER | [M] |
| IC971 | 0N2180RLC1 | IC PHOTO INTERRUPTER | [M] |
| IC1000 | MN1933222MD2 | IC MP3 DSP | [M] |
| IC1001 | AN7348STA-E1 | IC TAPE PB | [M] |
| IC1001 | MN101C427MA2 | IC MP3 MICROPROCESSOR | [M] |
| IC1002 | BU2090AF-E2 | IC I/O EXPANDER | [M] |
| IC1002 | C3BBHG000048 | IC 64K X 16 SRAM | [M] |
| IC1003 | C0JBAK000133 | IC RIPPLE-CARRY BINARY COUNTER | [M] |
| IC1004 | BA7755A | IC R/P SELECT | [M] |
| IC1004 | C0JBAF000184 | IC DUAL D FLIP FLOP | [M] |
| IC1005 | C0JBAB000007 | IC INVERTER | [M] |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
|  |  | TRANSISTORS |  |
|  |  |  |  |
| Q1 | 2SK544F-AC | TRANSISTOR | [M] |
| Q1 | RVTDTC143EST | TRANSISTOR | [M] |
| Q2 | 2SC2786MTA | TRANSISTOR | [M] |
| Q3 | 2SC2787FL1TA | TRANSISTOR | [M] |
| Q4 | 2SC2787FL1TA | TRANSISTOR | [M] |
| Q101 | 2SC2058SPTA | TRANSISTOR | [M] |
| Q106 | KRA102MTA | TRANSISTOR | [M] ⚠ |
| Q201 | KTC3875GRTA | TRANSISTOR | [M] |
| Q202 | KTC3875GRTA | TRANSISTOR | [M] |
| Q203 | KTD1304TA | TRANSISTOR | [M] |
| Q204 | KTC3875GRTA | TRANSISTOR | [M] |
| Q205 | KTC3875GRTA | TRANSISTOR | [M] |
| Q207 | KTD1304TA | TRANSISTOR | [M] |
| Q301 | KRC102STA | TRANSISTOR | [M] |
| Q302 | KTA12710YTA | TRANSISTOR | [M] |
| Q303 | KRC101STA | TRANSISTOR | [M] |
| Q304 | KRC101STA | TRANSISTOR | [M] |
| Q305 | KRC101STA | TRANSISTOR | [M] |
| Q306 | KRC101STA | TRANSISTOR | [M] |
| Q307 | KRA102STA | TRANSISTOR | [M] |
| Q310 | KRC102STA | TRANSISTOR | [M] |
| Q311 | 2SC2712GRT5T | TRANSISTOR | [M] |
| Q312 | 2SC2712GRT5T | TRANSISTOR | [M] |
| Q314 | 2SC2712GRT5T | TRANSISTOR | [M] |
| Q315 | KRC101STA | TRANSISTOR | [M] |
| Q316 | KRC102STA | TRANSISTOR | [M] |
| Q317 | KRC102STA | TRANSISTOR | [M] |
| Q318 | KRA111STA | TRANSISTOR | [M] |
| Q319 | KTA12710YTA | TRANSISTOR | [M] |
| Q320 | B1AAKD000009 | TRANSISTOR | [M] ⚠ |
| Q370 | 2SA1037AKSTX | TRANSISTOR | [M] |
| Q371 | 2SD592AQRSTA | TRANSISTOR | [M] ⚠ |
| Q372 | 2SA1037AKSTX | TRANSISTOR | [M] |
| Q373 | 2SD592AQRSTA | TRANSISTOR | [M] |
| Q374 | 2SA1037AKSTX | TRANSISTOR | [M] |
| Q375 | 2SC2412KT96R | TRANSISTOR | [M] |
| Q401 | KTC3875GRTA | TRANSISTOR | [M] |
| Q402 | KTC3875GRTA | TRANSISTOR | [M] |
| Q403 | KTD1304TA | TRANSISTOR | [M] |
| Q404 | KTC3875GRTA | TRANSISTOR | [M] |
| Q405 | KTC3875GRTA | TRANSISTOR | [M] |
| Q407 | KTD1304TA | TRANSISTOR | [M] |
| Q500 | KTC2026 | TRANSISTOR | [M] ⚠ |
| Q501 | KTA1046 | TRANSISTOR | [M] ⚠ |
| Q502 | KTC2026 | TRANSISTOR | [M] ⚠ |
| Q503 | KTA1046 | TRANSISTOR | [M] |
| Q504 | KRA110MTA | TRANSISTOR | [M] |
| Q505 | KTC3199GRTA | TRANSISTOR | [M] ⚠ |
| Q506 | B1AAKD000009 | TRANSISTOR | [M] ⚠ |
| Q507 | KRA110MTA | TRANSISTOR | [M] |
| Q508 | KTA12710YTA | TRANSISTOR | [M] |

| | | | |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| Q509 | KTC3199GRTA | TRANSISTOR | [M] ⚠ |
| Q510 | KTC3199GRTA | TRANSISTOR | [M] |
| Q511 | KTC3199GRTA | TRANSISTOR | [M] |
| Q512 | 2SD2144STA | TRANSISTOR | [M] |
| Q513 | KTA1267GRTA | TRANSISTOR | [M] |
| Q600 | KRC103MTA | TRANSISTOR | [M] |
| Q601 | KRC102MTA | TRANSISTOR | [M] |
| Q602 | KTA1267GRTA | TRANSISTOR | [M] |
| Q603 | KTC3199GRTA | TRANSISTOR | [M] |
| Q604 | KTC3199GRTA | TRANSISTOR | [M] |
| Q605 | KRC102MTA | TRANSISTOR | [M] |
| Q608 | KTC3199GRTA | TRANSISTOR | [M] |
| Q609 | KTC3199GRTA | TRANSISTOR | [M] |
| Q610 | KTC3199GRTA | TRANSISTOR | [M] |
| Q611 | KTC3199GRTA | TRANSISTOR | [M] |
| Q612 | KTC3199GRTA | TRANSISTOR | [M] ⚠ |
| Q613 | KRC102MTA | TRANSISTOR | [M] |
| Q614 | KTC3199GRTA | TRANSISTOR | [M] |
| Q615 | KTA1267GRTA | TRANSISTOR | [M] ⚠ |
| Q616 | KTC3199GRTA | TRANSISTOR | [M] |
| Q701 | 2SA1037AKSTX | TRANSISTOR | [M] |
| Q950 | KTC3205YTA | TRANSISTOR | [M] ⚠ |
| Q951 | 2SB621ARSTA | TRANSISTOR | [M] ⚠ |
| Q953 | 2SD2144STA | TRANSISTOR | [M] |
| Q1000 | UN5211TX | TRANSISTOR | [M] |
| Q1001 | KTC3199GRTA | TRANSISTOR | [M] |
| Q1003 | 2SD2144STA | TRANSISTOR | [M] |
| Q1004 | 2SD2144STA | TRANSISTOR | [M] |
| Q1005 | 2SD2144STA | TRANSISTOR | [M] |
| Q1007 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1008 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1009 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1010 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1011 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1012 | KTD1304TA | TRANSISTOR | [M] |
| Q1013 | KTD1304TA | TRANSISTOR | [M] |
| Q1014 | 2SC2412KT96R | TRANSISTOR | [M] |
| Q1015 | 2SC2412KT96R | TRANSISTOR | [M] |
| Q1016 | KRA102STA | TRANSISTOR | [M] |
| Q1017 | KTD1146YTA | TRANSISTOR | [M] |
| Q1018 | KTA12710YTA | TRANSISTOR | [M] |
| Q1019 | KTA12710YTA | TRANSISTOR | [M] |
| Q1020 | KTD1304TA | TRANSISTOR | [M] |
| Q1021 | KTD1304TA | TRANSISTOR | [M] |
| Q1022 | KRA102STA | TRANSISTOR | [M] |
| Q1023 | KRA102STA | TRANSISTOR | [M] |
|  |  |  |  |
|  |  | DIODES |  |
|  |  |  |  |
| D1 | GP1S94 | DIODE | [M] |
| D1 | SVC211SPA-AL | DIODE | [M] |
| D2 | MTZJ4R7BTA | DIODE | [M] |
| D2 | SVC211SPA-AL | DIODE | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| D3 | SVC211SPA-AL | DIODE | [M] |
| D101 | UDZSTE175R1B | DIODE | [M] |
| D202 | MA728TX | DIODE | [M] |
| D204 | DA204KT146 | DIODE | [M] |
| D205 | MA728TX | DIODE | [M] |
| D301 | 1SS355TE17 | DIODE | [M] |
| D302 | DAP202KT146 | DIODE | [M] |
| D303 | DAP202KT146 | DIODE | [M] |
| D304 | DAP202KT146 | DIODE | [M] |
| D308 | RL1N4003N02 | DIODE | [M] |
| D311 | UDZSTE175R1B | DIODE | [M] |
| D312 | RL1N4003N02 | DIODE | [M] |
| D317 | UDZSTE177R5B | DIODE | [M] |
| D370 | 1SS355TE17 | DIODE | [M] |
| D371 | UDZSTE1710B | DIODE | [M] |
| D374 | RL1N4003N02 | DIODE | [M] |
| D375 | 1SS355TE17 | DIODE | [M] |
| D376 | 1SS355TE17 | DIODE | [M] |
| D377 | 1SS355TE17 | DIODE | [M] |
| D402 | MA728TX | DIODE | [M] |
| D404 | DA204KT146 | DIODE | [M] |
| D405 | MA728TX | DIODE | [M] |
| D500 | MTZJ15CTA | DIODE | [M] |
| D502 | MTZJ10BTA | DIODE | [M] |
| D503 | MTZJ10BTA | DIODE | [M] |
| D504 | RVD1SS133TA | DIODE | [M] |
| D505 | RVD1SS133TA | DIODE | [M] |
| D506 | RVD1SS133TA | DIODE | [M] |
| D507 | MTZJ5R6BTA | DIODE | [M] |
| D508 | MTZJ16BTA | DIODE | [M] |
| D509 | RL1N4003N02 | DIODE | [M] |
| D510 | RL1N4003N02 | DIODE | [M] |
| D511 | RL1N4003N02 | DIODE | [M] |
| D512 | RVD1SS133TA | DIODE | [M] |
| D513 | RL1N4003N02 | DIODE | [M] |
| D611 | 1SS380TE-17 | DIODE | [M] |
| D612 | 1SS380TE-17 | DIODE | [M] |
| D616 | MTZJ5R6BTA | DIODE | [M] |
| D617 | RVD1SS133TA | DIODE | [M] |
| D618 | RVD1SS133TA | DIODE | [M] |
| D619 | MA723TA | DIODE | [M] |
| D620 | SLI325URCT31 | DIODE | [M] |
| D621 | MA723TA | DIODE | [M] |
| D622 | LNJ301MPUJAD | DIODE | [M] |
| D623 | LNJ301MPUJAD | DIODE | [M] |
| D624 | LNJ301MPUJAD | DIODE | [M] |
| D625 | RVD1SS133TA | DIODE | [M] |
| D626 | RVD1SS133TA | DIODE | [M] |
| D801 | 1SS355TE17 | DIODE | [M] |
| D802 | 1SS355TE17 | DIODE | [M] |
| D803 | RL1N4003N02 | DIODE | [M] |
| D804 | EK14LFH2K | DIODE | [M] |
| D902 | SLR325YCT31 | DIODE | [M] |
| D903 | SLR325YCT31 | DIODE | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| D904 | LNJ301MPUJAD | DIODE | [M] |
| D905 | LNJ301MPUJAD | DIODE | [M] |
| D950 | 1D3E | DIODE | [M] |
| D951 | 1D3E | DIODE | [M] |
| D951 | MA165TA | DIODE | [M] |
| D952 | MTZJ6R8BTA | DIODE | [M] |
| D953 | 1D3E | DIODE | [M] |
| D954 | 1D3E | DIODE | [M] |
| D955 | RL1N4003N02 | DIODE | [M] |
| D956 | RL1N4003N02 | DIODE | [M] |
| D957 | MTZJ33BTA | DIODE | [M] |
| D958 | RL1N4003N02 | DIODE | [M] |
| D959 | KBP152G4R5 | DIODE | [M] ⚠ |
| D960 | KBU803-001 | DIODE | [M] ⚠ |
| D971 | MA165TA | DIODE | [M] |
| D1003 | 1SS355TE17 | DIODE | [M] |
| D1004 | UDZTE173R6B | DIODE | [M] |
|  |  |  |  |
|  |  | VARIABLE RESISTORS |  |
|  |  |  |  |
| VR600 | EVEKE2F3024M | VR VOLUME JOG | [M] |
|  |  |  |  |
|  |  | SWITCHES |  |
|  |  |  |  |
| S600 | EVQ21405R | SW POWER | [M] |
| S601 | EVQ21405R | SW DISPLAY | [M] |
| S602 | EVQ21405R | SW DISC 1 | [M] |
| S603 | EVQ21405R | SW DISC 2 | [M] |
| S604 | EVQ21405R | SW DISC 3 | [M] |
| S605 | EVQ21405R | SW DISC 4 | [M] |
| S606 | EVQ21405R | SW DISC 5 | [M] |
| S607 | EVQ21405R | SW CD OPEN/CLOSE | [M] |
| S701 | RSH1A043-U | SW REST | [M] |
| S910 | EVQ21405R | SW CD PLAY | [M] |
| S911 | EVQ21405R | SW TAPE PLAY | [M] |
| S912 | EVQ21405R | SW TUNER/BAND | [M] |
| S913 | EVQ21405R | SW AUX | [M] |
| S914 | EVQ21405R | SW SUPER SOUND EQ | [M] |
| S920 | EVQ21405R | SW DECK 2 OPEN | [M] |
| S921 | EVQ21405R | SW FF | [M] |
| S922 | EVQ21405R | SW STOP | [M] |
| S923 | EVQ21405R | SW REW | [M] |
| S924 | EVQ21405R | SW DECK 1 OPEN | [M] |
| S925 | EVQ21405R | SW DECK 1/2 | [M] |
| S926 | EVQ21405R | SW REC/STOP | [M] |
| S928 | EVQ21405R | SW S. W./PRESET EQ | [M] |
| S951 | RSH1A018-3U | SW MODE | [M] |
| S952 | RSH1A019-2U | SW LEAF | [M] |
| S953 | RSH1A019-2U | SW LEAF | [M] |
| S971 | RSH1A018-3U | SW LEAF | [M] |
| S972 | RSH1A019-2U | SW LEAF | [M] |
| S973 | RSH1A019-2U | SW LEAF | [M] |
| S974 | RSH1A019-2U | SW LEAF | [M] |
| S975 | RSH1A019-2U | SW LEAF | [M] |

| | | | |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| **S976** | **RSH1A019-2U** | **SW LEAF** | **[M]** |
| | | | |
| | | **SWITCHES** | |
| | | | |
| **SW1** | **RSH1A032-U** | **SW PUSH** | **[M]** |
| **SW2** | **RSH1A032-U** | **SW PUSH** | **[M]** |
| **SW3** | **RSH1A005-1U** | **SW** | **[M]** |
| **SW4** | **RSH1A91ZA-A** | **SW CD** | **[M]** |
| **SW5** | **RSP1A017-A** | **SW LOCK** | **[M]** |
| | | | |
| | | **CONNECTORS** | |
| | | | |
| **CN1** | **RJS1A9414** | **FF CONNECTOR** | **[M]** |
| **CN300** | **RJU057G12** | **12P P2 MQ CONNECTOR** | **[M]** |
| **CN301** | **RJU057G12** | **12P P2 MQ CONNECTOR** | **[M]** |
| **CN302** | **K1MN30A00046** | **30P FFC CONNECTOR** | **[M]** |
| **CN303** | **RJS1A9417** | **FFC CONNECTOR** | **[M]** |
| **CN304** | **RJS1A5210** | **10P WIRE HOLDER** | **[M]** |
| **CN305** | **RJP2G4YA** | **CONNECTOR** | **[M]** |
| **CN309** | **RJS1A9414-1** | **14P CONNECTOR** | **[M]** |
| **CN310** | **K1MN30A00046** | **30P FFC CONNECTOR** | **[M]** |
| **CN311** | **K1KA20A00108** | **20P CONNECTOR** | **[M]** |
| **CN500** | **RJT057G12** | **12P P2 MQ CONNECTOR** | **[M]** |
| **CN501** | **RJT057G12** | **12P P2 MQ CONNECTOR** | **[M]** |
| **CN701** | **RJS2A8616** | **16P FPC CONNECTOR** | **[M]** |
| **CN702** | **RJS2A4230-1F** | **30 PIN CONNECTOR** | **[M]** |
| **CN900** | **RJT066H08D** | **8P B-B CONNECTOR** | **[M]** |
| **CN951** | **RJP13G4YA** | **13P CONNECTOR** | **[M]** |
| **CN952** | **RJP7G18ZA** | **7P CONNECTOR** | **[M]** |
| **CN953** | **RJP7G4YA** | **7P PLUG IN CONNECTOR** | **[M]** |
| **CN1000** | **K1KA20B00022** | **CONNECTOR 20P** | **[M]** |
| **CN1001** | **52151-0810** | **8P WIRE TRAP** | **[M]** |
| | | | |
| **CP600** | **K1MN30A00046** | **30P FFC CONNECTOR** | **[M]** |
| **CP601** | **RJS1A9417** | **FFC CONNECTOR** | **[M]** |
| **CP900** | **RJU066H08** | **8P B-B SOCKET** | **[M]** |
| **CP1001** | **RJT071K09A** | **9P B/B CONNECTOR** | **[M]** |
| **CP1002** | **RJT071K09A** | **9P B/B CONNECTOR** | **[M]** |
| | | | |
| **CS951** | **RJU071H09M1** | **CONNECTOR** | **[M]** |
| **CS971** | **RJU071H09M1** | **CONNECTOR** | **[M]** |
| **CS1001** | **RJS1A6805-J** | **5P CONNECTOR SOCKET** | **[M]** |
| **CS1002** | **RJS1A6805-J** | **5P CONNECTOR SOCKET** | **[M]** |
| | | | |
| | | **COILS & TRANSFORMERS** | |
| | | | |
| **L1** | **RLQZP1R2KT-Y** | **COIL** | **[M]** |
| **L2** | **RLQZPR47KT-Y** | **COIL** | **[M]** |
| **L102** | **RLQB1R0KTD-D** | **INDUCTOR** | **[M]** |
| **L600** | **RLQB3R3KT-1Y** | **COIL** | **[M]** |
| **L602** | **RLQB101KT-1Y** | **COIL** | **[M]** |
| **L606** | **RLQZP101KT-Y** | **AXIAL COIL** | **[M]** |
| **L607** | **RLQZP101KT-Y** | **AXIAL COIL** | **[M]** |
| **L608** | **RLQZP100KT-Y** | **AXIAL COIL** | **[M]** |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| L701 | RLBN102V-Y | CHIP INDUCTOR | [M] |
| L702 | RLBN102V-Y | CHIP INDUCTOR | [M] |
| L703 | RLBN102V-Y | CHIP INDUCTOR | [M] |
| L704 | RLBN102V-Y | CHIP INDUCTOR | [M] |
| L801 | RLL500050T-Y | RF CHOKE COIL | [M] |
| L802 | RLL500050T-Y | RF CHOKE COIL | [M] |
| L803 | RLL500050T-Y | RF CHOKE COIL | [M] |
| L804 | RLQX101M-T | COIL | [M] |
| L805 | RLL500050T-Y | RF CHOKE COIL | [M] |
| L1001 | RLQB470JTD-D | RF CHOKE COIL | [M] |
| L1001 | VLP0157-T | CHIP INDUCTOR | [M] |
| L1002 | 7L1A62N | BIAS OSC COIL | [M] |
| | | | |
| T950 | G4C7AGD00003 | MAIN TRANSFORMER | [M]PC ⚠ |
| T950 | G4C7AGD00004 | MAIN TRANSFORMER | [M]P ⚠ |
| T951 | G4C2AAJ00001 | BACK UP TRANSFORMER | [M] ⚠ |
| | | | |
| | | COMPONENT COMBINATION | |
| | | | |
| Z101 | RLA2Z007-T | COIL | [M] |
| Z102 | RLI2Z021M-T | AM IF BLOCK | [M] |
| Z600 | RCD37142TC5 | REMOTE CONTROL SENSO | [M] |
| Z950 | ERZV10V511CS | ZENER | [M] |
| Z971 | RGSD12A1445T | RADA RESISTOR | [M] |
| Z1002 | RGSD12A1445T | RADA RESISTOR | [M] |
| | | | |
| | | CERAMIC FILTERS | |
| | | | |
| CF201 | RLFFETWND01M | FM CF | [M] |
| CF202 | RLFFETWND01M | FM CF | [M] |
| | | | |
| | | RELAY | |
| | | | |
| RL950 | RSY0040M-0 | PRIMARY RELAY | [M] ⚠ |
| | | | |
| | | OSCILLATORS | |
| | | | |
| X102 | RLFDFT22DD | DISCRIMINATOR | [M] |
| X103 | RSXC7M20S05T | CRYSTAL OSCILLATOR | [M] |
| X600 | RSXD32K7S02 | CRYSTAL OSCILLATOR | [M] |
| X600 | RSXY6M00M05T | CERAMIC OCCILLATOR | [M] |
| X601 | RSXZ4M19B01T | CERAMIC OCCILLATOR | [M] |
| X701 | RSXB16M9J02T | CRYSTAL OSCILLATOR | [M] |
| | | | |
| | | DISPLAY TUBE | |
| | | | |
| FL600 | A2BD00000053 | FL DISPLAY | [M] |
| | | | |
| | | FUSES | |
| | | | |
| F1 | K5D402AQ0002 | PRIMARY FUSE 4A | [M] ⚠ |
| | | | |
| | | FUSE HOLDERS | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| **FC1** | **EYF52BC** | **FUSE HOLDER** | **[M]** |
| **FC2** | **EYF52BC** | **FUSE HOLDER** | **[M]** |
| | | | |
| | | **FUSE PROTECTOR** | |
| | | | |
| **FP950** | **K5G102AA0002** | **FUSE PROTECTOR** | **[M]P** ⚠ |
| **FP950** | **K5G402A00018** | **FUSE PROTECTOR** | **[M]PC** ⚠ |
| **FP951** | **K5G102AA0002** | **FUSE PROTECTOR** | **[M]P** ⚠ |
| **FP951** | **20N1000FSE-F** | **FUSE PROTECTOR** | **[M]PC** ⚠ |
| | | | |
| | | **HOLDERS** | |
| | | | |
| **H500** | **K1YF07000003** | **7 PIN WIRE HOLDER (** | **[M]** |
| **H501A** | **RJS1A5505** | **5P WIRE HOLDER** | **[M]** |
| **H501B** | **RJS1A5505** | **5P WIRE HOLDER** | **[M]** |
| **H502A** | **RJS1A5505** | **5P WIRE HOLDER** | **[M]** |
| **H502B** | **RJS1A5505** | **5P WIRE HOLDER** | **[M]** |
| **H600** | **RMR0316** | **7P CABLE HOLDER** | **[M]** |
| **H601** | **RMR0317** | **8P CABLE HOLDER** | **[M]** |
| **H950** | **K1YF13000001** | **13 PIN WIRE HOLDER (** | **[M]** |
| **H1001** | **RMR0319** | **10P CABLE HOLDER** | **[M]** |
| | | | |
| | | **JACKS** | |
| | | | |
| **JK101** | **RJH5414-1** | **JK ANTENNA** | **[M]** |
| **JK305** | **RJH2213L-1** | **JK 2P RCA** | **[M]** |
| **JK601** | **RJJ37TK07-X** | **JK HP/MIC** | **[M]** |
| **JK950** | **K2AB2B000002** | **JK AC INLET** | **[M]** ⚠ |
| **JK951** | **RJR0054P-J** | **JK 4 TERMINAL SPK** | **[M]** |
| **JK952** | **RJR0054N-J** | **JK 4 TERMINAL SPK** | **[M]** |
| | | | |
| | | **EARTH TERMINAL** | |
| | | | |
| **E500** | **SNE1004-2** | **EARTH TERMINAL** | **[M]** |
| **E950** | **SNE1004-2** | **EARTH TERMINAL** | **[M]** |
| | | | |
| | | **WIRES** | |
| | | | |
| **W1** | **REZ1023-1** | **4P WIRE** | **[M]** |
| **W2** | **REZ1024** | **3P WIRE** | **[M]** |
| **W500** | **REXX0275** | **7P FLAT WIRE** | **[M]** |
| **W501B** | **RWJ1805155XX** | **5P FLAT WIRE** | **[M]** |
| **W502B** | **RWJ1805175XX** | **5P FLAT WIRE** | **[M]** |
| **W600** | **REXX0273** | **7P FLAT WIRE** | **[M]** |
| **W601** | **RWJ0208150RX** | **8P PANEL TO DECK** | **[M]** |
| **W950** | **REXX0274** | **13P FLAT WIRE** | **[M]** |
| **W1001** | **RWJ6510110XX** | **10P WIRE** | **[M]** |
| **W1002** | **RWJ0102050CK** | **MAIN-MECHA MOTOR WIR** | **[M]** |
| | | | |
| | | **RESISTORS** | |
| | | | |
| **R1** | **ERDS2TJ102T** | **1K 1/4W** | **[M]** |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R1 | ERDS2TJ104T | 100K 1/4W | [M] |
| R2 | ERDS2TJ104T | 100K 1/4W | [M] |
| R3 | ERDS2TJ221T | 220 1/4W | [M] |
| R4 | ERDS2TJ104T | 100K 1/4W | [M] |
| R5 | ERDS2TJ564T | 560K 1/4W | [M] |
| R6 | ERDS2TJ391T | 390 1/4W | [M] |
| R7 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R8 | ERDS2TJ684T | 680K 1/4W | [M] |
| R9 | ERDS2TJ391T | 390 1/4W | [M] |
| R10 | ERDS2TJ391T | 390 1/4W | [M] |
| R11 | ERDS2TJ684T | 680K 1/4W | [M] |
| R101 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R102 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R103 | ERJ3GEYJ271V | 270 1/16W | [M] |
| R104 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R105 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R106 | ERJ3GEYJ474V | 470K 1/16W | [M] |
| R107 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R110 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R111 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R112 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R113 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R114 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R115 | ERJ3GEYJ561V | 560 1/16W | [M] |
| R116 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R117 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R118 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R119 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R120 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R121 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R122 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R123 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R124 | ERJ3GEYJ330V | 33 1/16W | [M] |
| R125 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R126 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R127 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R128 | ERJ3GEYJ820V | 82 1/16W | [M] |
| R129 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R130 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R131 | ERJ3GEYJ121V | 120 1/16W | [M] |
| R132 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R133 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R134 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R135 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R136 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R137 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R138 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R141 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R142 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R143 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R144 | ERJ3GEYJ121V | 120 1/16W | [M] |
| R145 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R146 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R151 | ERJ3GEYJ820V | 82 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R152 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R201 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R202 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R203 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R204 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R205 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R206 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R207 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R208 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R209 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R210 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R211 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R212 | ERJ3GEYJ334V | 330K 1/16W | [M] |
| R213 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R214 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R215 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R216 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R217 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R218 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R219 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R220 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R221 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R222 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R223 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R224 | ERJ3GEYJ302V | 3K 1/16W | [M] |
| R225 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R226 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R227 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R228 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R229 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R230 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R231 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R232 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R233 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R234 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R235 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R236 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R237 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R238 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R240 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R241 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R242 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R243 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R245 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R246 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R247 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R248 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R249 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R250 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R252 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R253 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R261 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R262 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R266 | ERJ3GEYJ681V | 680 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R270 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R271 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R302 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R303 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R304 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R305 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R312 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R313 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R314 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R315 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R316 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R317 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R318 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R319 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R320 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R321 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R322 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R324 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R325 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R326 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R327 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R328 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R329 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R330 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R331 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R332 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R333 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R334 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R335 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R336 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R337 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R338 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R339 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R340 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R341 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R342 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R344 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R345 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R370 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R371 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R372 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R373 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R374 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R375 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R376 | ERDS1FVJ220T | 22 1/2W | [M] |
| R377 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R378 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R379 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R380 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R381 | ERJ3GEYJ225V | 2.2M 1/16W | [M] |
| R382 | ERDS1FVJ330T | 33 1/2W | [M] |
| R384 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R385 | ERDS1FVJ270T | 27 1/2W | [M] |
| R386 | ERJ3GEY0R00V | 0 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R387 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R388 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R389 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R390 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R391 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R392 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R393 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R394 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R395 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R396 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R397 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R398 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R399 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R401 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R402 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R403 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R404 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R405 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R406 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R407 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R408 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R409 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R410 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R411 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R412 | ERJ3GEYJ334V | 330K 1/16W | [M] |
| R413 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R414 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R415 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R416 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R417 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R418 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R419 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R420 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R421 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R422 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R423 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R424 | ERJ3GEYJ302V | 3K 1/16W | [M] |
| R425 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R426 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R427 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R428 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R429 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R430 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R431 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R432 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R433 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R434 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R435 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R436 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R437 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R438 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R440 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R441 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R442 | ERJ3GEYJ153V | 15K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R443 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R445 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R446 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R447 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R448 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R449 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R450 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R452 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R461 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R462 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R466 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R470 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R471 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R500 | ERDS2TJ153T | 15K 1/4W | [M] |
| R501 | ERDS2TJ153T | 15K 1/4W | [M] |
| R502 | ERDS2TJ153T | 15K 1/4W | [M] |
| R503 | ERDS2TJ153T | 15K 1/4W | [M] |
| R504 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R505 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R506 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R507 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R508 | ERDS2TJ683T | 68K 1/4W | [M] |
| R509 | ERDS2TJ683T | 68K 1/4W | [M] |
| R510 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R511 | ERDS2TJ224T | 220K 1/4W | [M] |
| R512 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R514 | ERDS2TJ334T | 330K 1/4W | [M] |
| R515 | ERDS2TJ683T | 68K 1/4W | [M] |
| R516 | ERDS2TJ154T | 150K 1/4W | [M] |
| R517 | ERDS2TJ124T | 120K 1/4W | [M] |
| R518 | ERDS2TJ184T | 180K 1/4W | [M] |
| R519 | ERDS2TJ124T | 120K 1/4W | [M] |
| R521 | ERDS2TJ683T | 68K 1/4W | [M] |
| R522 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R523 | ERDS2TJ683T | 68K 1/4W | [M] |
| R524 | ERDS2TJ683T | 68K 1/4W | [M] |
| R525 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R526 | ERDS2TJ334T | 330K 1/4W | [M] |
| R527 | ERDS2TJ683T | 68K 1/4W | [M] |
| R528 | ERDS2TJ683T | 68K 1/4W | [M] |
| R529 | ERDS2TJ103T | 10K 1/4W | [M] |
| R530 | ERDS2TJ103T | 10K 1/4W | [M] |
| R531 | ERDS2TJ682T | 6.8K 1/4W | [M] |
| R532 | ERDS2TJ223T | 22K 1/4W | [M] |
| R533 | ERDS2TJ104T | 100K 1/4W | [M] |
| R534 | ERDS2TJ223T | 22K 1/4W | [M] |
| R535 | ERDS2TJ223T | 22K 1/4W | [M] |
| R536 | ERDS2TJ103T | 10K 1/4W | [M] |
| R537 | ERDS1FVJ2R7T | 2.7 1/2W | [M] |
| R538 | ERDS1FVJ2R7T | 2.7 1/2W | [M] |
| R539 | ERDS1FVJ2R7T | 2.7 1/2W | [M] |
| R540 | ERDS1FVJ2R7T | 2.7 1/2W | [M] |
| R541 | ERDS1FVJ2R7T | 2.7 1/2W | [M] |
| R542 | ERDS2TJ472T | 4.7K 1/4W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| **R543** | **ERDS2TJ2R2T** | **2.2 1/4W** | **[M]** |
| **R544** | **ERDS2TJ332T** | **3.3K 1/4W** | **[M]** |
| **R545** | **ERDS2TJ222T** | **2.2K 1/4W** | **[M]** |
| **R546** | **ERDS2TJ151T** | **150 1/4W** | **[M]** |
| **R547** | **ERDS1FVJ270T** | **27 1/2W** | **[M]** |
| **R548** | **ERDS1FVJ150T** | **15 1/2W** | **[M]** |
| **R549** | **ERD2FCVG120T** | **12 1/4W** | **[M]** |
| **R550** | **ERDS1FVJ150T** | **15 1/2W** | **[M]** |
| **R552** | **ERDS2TJ332T** | **3.3K 1/4W** | **[M]** |
| **R553** | **ERDS2TJ101T** | **100 1/4W** | **[M]** |
| **R554** | **ERDS2TJ222T** | **2.2K 1/4W** | **[M]** |
| **R555** | **ERDS2TJ392T** | **3.9K 1/4W** | **[M]** |
| **R556** | **ERDS2TJ103T** | **10K 1/4W** | **[M]** |
| **R557** | **ERDS2TJ331T** | **330 1/4W** | **[M]** |
| **R558** | **ERDS2TJ2R2T** | **2.2 1/4W** | **[M]** |
| **R559** | **ERDS2TJ2R2T** | **2.2 1/4W** | **[M]** |
| **R560** | **ERDS2TJ2R2T** | **2.2 1/4W** | **[M]** |
| **R561** | **ERDS2TJ122T** | **1.2K 1/4W** | **[M]** |
| **R562** | **ERDS2TJ103T** | **10K 1/4W** | **[M]** |
| **R563** | **ERDS2TJ331T** | **330 1/4W** | **[M]** |
| **R564** | **ERDS1FVJ331T** | **330 1/2W** | **[M]** |
| **R565** | **ERDS1FVJ331T** | **330 1/2W** | **[M]** |
| **R566** | **ERDS1FVJ331T** | **330 1/2W** | **[M]** |
| **R579** | **ERDS2TJ473T** | **47K 1/4W** | **[M]** |
| **R580** | **ERDS2TJ473T** | **47K 1/4W** | **[M]** |
| **R581** | **ERDS2TJ272T** | **2.7K 1/4W** | **[M]** |
| **R582** | **ERDS2TJ561T** | **560 1/4W** | **[M]** |
| **R583** | **ERDS2TJ272T** | **2.7K 1/4W** | **[M]** |
| **R584** | **ERDS2TJ103T** | **10K 1/4W** | **[M]** |
| **R586** | **ERDS2TJ331T** | **330 1/4W** | **[M]** |
| **R601** | **ERDS2TJ681T** | **680 1/4W** | **[M]** |
| **R602** | **ERDS2TJ106T** | **10M 1/4W** | **[M]** |
| **R603** | **ERDS2TJ334T** | **330K 1/4W** | **[M]** |
| **R604** | **ERDS2TJ472T** | **4.7K 1/4W** | **[M]** |
| **R605** | **ERDS2TJ472T** | **4.7K 1/4W** | **[M]** |
| **R606** | **ERDS2TJ103T** | **10K 1/4W** | **[M]** |
| **R607** | **ERDS2TJ223T** | **22K 1/4W** | **[M]** |
| **R608** | **ERDS2TJ471T** | **470 1/4W** | **[M]** |
| **R609** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R610** | **ERDS2TJ473T** | **47K 1/4W** | **[M]** |
| **R611** | **ERDS2TJ102T** | **1K 1/4W** | **[M]** |
| **R612** | **ERDS2TJ474T** | **470K 1/4W** | **[M]** |
| **R613** | **ERDS2TJ472T** | **4.7K 1/4W** | **[M]** |
| **R614** | **ERDS2TJ680T** | **68 1/4W** | **[M]** |
| **R615** | **ERDS2TJ680T** | **68 1/4W** | **[M]** |
| **R616** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R617** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R618** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R619** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R620** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R621** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R622** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R623** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |
| **R624** | **ERDS2TJ104T** | **100K 1/4W** | **[M]** |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R625 | ERDS2TJ104T | 100K 1/4W | [M] |
| R626 | ERDS2TJ104T | 100K 1/4W | [M] |
| R627 | ERDS2TJ104T | 100K 1/4W | [M] |
| R628 | ERDS2TJ102T | 1K 1/4W | [M] |
| R629 | ERDS2TJ102T | 1K 1/4W | [M] |
| R630 | ERDS2TJ101T | 100 1/4W | [M] |
| R631 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R632 | ERDS2TJ101T | 100 1/4W | [M] |
| R633 | ERDS2TJ101T | 100 1/4W | [M] |
| R634 | ERDS2TJ473T | 47K 1/4W | [M] |
| R635 | ERDS2TJ104T | 100K 1/4W | [M] |
| R636 | ERDS2TJ101T | 100 1/4W | [M] |
| R637 | ERDS2TJ392T | 3.9K 1/4W | [M] |
| R638 | ERDS2TJ103T | 10K 1/4W | [M] |
| R639 | ERDS2TJ681T | 680 1/4W | [M] |
| R640 | ERDS2TJ102T | 1K 1/4W | [M] |
| R641 | ERDS2TJ223T | 22K 1/4W | [M] |
| R642 | ERDS2TJ101T | 100 1/4W | [M] |
| R643 | ERDS2TJ101T | 100 1/4W | [M] |
| R644 | ERDS2TJ101T | 100 1/4W | [M] |
| R645 | ERDS2TJ103T | 10K 1/4W | [M] |
| R646 | ERDS2TJ103T | 10K 1/4W | [M] |
| R647 | ERDS2TJ103T | 10K 1/4W | [M] |
| R648 | ERDS2TJ102T | 1K 1/4W | [M] |
| R649 | ERDS2TJ102T | 1K 1/4W | [M] |
| R650 | ERDS2TJ103T | 10K 1/4W | [M] |
| R651 | ERDS2TJ103T | 10K 1/4W | [M] |
| R652 | ERDS2TJ222T | 2.2K 1/4W | [M] |
| R653 | ERDS2TJ103T | 10K 1/4W | [M] |
| R654 | ERDS2TJ223T | 22K 1/4W | [M] |
| R655 | ERDS2TJ473T | 47K 1/4W | [M] |
| R656 | ERDS2TJ221T | 220 1/4W | [M] |
| R657 | ERDS2TJ221T | 220 1/4W | [M] |
| R658 | ERDS2TJ103T | 10K 1/4W | [M] |
| R659 | ERDS2TJ473T | 47K 1/4W | [M] |
| R660 | ERDS2TJ473T | 47K 1/4W | [M] |
| R661 | ERDS2TJ473T | 47K 1/4W | [M] |
| R663 | ERDS2TJ223T | 22K 1/4W | [M] |
| R664 | ERDS2TJ223T | 22K 1/4W | [M] |
| R665 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R666 | ERDS2TJ102T | 1K 1/4W | [M] |
| R667 | ERDS2TJ102T | 1K 1/4W | [M] |
| R668 | ERDS2TJ102T | 1K 1/4W | [M] |
| R670 | ERDS2TJ104T | 100K 1/4W | [M] |
| R671 | ERDS2TJ473T | 47K 1/4W | [M] |
| R672 | ERDS2TJ473T | 47K 1/4W | [M] |
| R673 | ERDS2TJ104T | 100K 1/4W | [M] |
| R674 | ERDS2TJ332T | 3.3K 1/4W | [M] |
| R675 | ERDS2TJ104T | 100K 1/4W | [M] |
| R676 | ERDS2TJ102T | 1K 1/4W | [M] |
| R677 | ERDS2TJ102T | 1K 1/4W | [M] |
| R678 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R679 | ERDS2TJ182T | 1.8K 1/4W | [M] |
| R680 | ERDS2TJ222T | 2.2K 1/4W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R681 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R682 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R683 | ERDS2TJ103T | 10K 1/4W | [M] |
| R684 | ERDS2TJ103T | 10K 1/4W | [M] |
| R685 | ERDS2TJ271T | 270 1/4W | [M] |
| R686 | ERDS2TJ271T | 270 1/4W | [M] |
| R687 | ERDS2TJ271T | 270 1/4W | [M] |
| R688 | ERDS2TJ104T | 100K 1/4W | [M] |
| R689 | ERDS2TJ473T | 47K 1/4W | [M] |
| R690 | ERDS2TJ473T | 47K 1/4W | [M] |
| R698 | ERDS2TJ682T | 6.8K 1/4W | [M] |
| R699 | ERDS2TJ470T | 47 1/4W | [M] |
| R701 | ERJ3GEYJ4R7V | 4.7 1/16W | [M] |
| R702 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R704 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R705 | ERJ3GEYJ154V | 150K 1/16W | [M] |
| R706 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R707 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R708 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R709 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R711 | ERJ3GEYJ124V | 120K 1/16W | [M] |
| R712 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R713 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R714 | ERJ3GEYJ121V | 120 1/16W | [M] |
| R715 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R716 | ERJ6GEYJ100V | 10 1/10W | [M] |
| R717 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R718 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R721 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R723 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R724 | ERJ6GEYJ183V | 18K 1/10W | [M] |
| R725 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R727 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R728 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R729 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R731 | ERJ6GEYJ682V | 6.8K 1/10W | [M] |
| R735 | ERJ6GEYJ101V | 100 1/10W | [M] |
| R736 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R741 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R742 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R744 | ERJ3GEYJ124V | 120K 1/16W | [M] |
| R749 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R750 | ERJ8GEYJ5R6V | 5.6 1/8W | [M] |
| R753 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R801 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R802 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R803 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R804 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R805 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R806 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R807 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R808 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R809 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R810 | ERJ3GEYJ103V | 10K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R811 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R812 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R813 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R814 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R815 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R816 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R817 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R818 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R819 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R820 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R821 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R822 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R823 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R824 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R825 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R826 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R827 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R828 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R829 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R830 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R831 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R832 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R833 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R834 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R835 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R836 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R837 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R838 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R839 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R840 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R841 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R842 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R843 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R844 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R845 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R846 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R847 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R848 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R849 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R850 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R851 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R852 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R853 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R854 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R855 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R856 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R857 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R858 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R861 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R862 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R863 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R864 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R865 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R866 | ERJ3GEYJ473V | 47K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R869 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R870 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R871 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R872 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R873 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R874 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R875 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R876 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R877 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R878 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R879 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R880 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R881 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R882 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R883 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R884 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R885 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R886 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R893 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R894 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R896 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R897 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R898 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R899 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R901 | ERDS2TJ681T | 680 1/4W | [M] |
| R902 | ERDS2TJ681T | 680 1/4W | [M] |
| R910 | ERDS2TJ102T | 1K 1/4W | [M] |
| R911 | ERDS2TJ102T | 1K 1/4W | [M] |
| R912 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R913 | ERDS2TJ182T | 1.8K 1/4W | [M] |
| R914 | ERDS2TJ102T | 1K 1/4W | [M] |
| R915 | ERDS2TJ102T | 1K 1/4W | [M] |
| R916 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R917 | ERDS2TJ182T | 1.8K 1/4W | [M] |
| R918 | ERDS2TJ222T | 2.2K 1/4W | [M] |
| R919 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R920 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R922 | ERDS2TJ221T | 220 1/4W | [M] |
| R924 | ERDS2TJ271T | 270 1/4W | [M] |
| R925 | ERDS2TJ271T | 270 1/4W | [M] |
| R945 | ERDS2TJ102T | 1K 1/4W | [M] |
| R946 | ERDS2TJ102T | 1K 1/4W | [M] |
| R947 | ERDS2TJ474T | 470K 1/4W | [M] |
| R948 | ERDS2TJ103T | 10K 1/4W | [M] |
| R949 | ERDS2TJ102T | 1K 1/4W | [M] |
| R950 | ERDS2TJ102T | 1K 1/4W | [M] |
| R951 | ERDS2TJ151T | 150 1/4W | [M] |
| R952 | ERDS1FVJ220T | 22 1/2W | [M] |
| R952 | ERDS2TJ821T | 820 1/4W | [M] |
| R953 | ERDS1FVJ180T | 18 1/2W | [M] |
| R953 | ERDS2TJ393T | 39K 1/4W | [M] |
| R954 | ERDS1FVJ120T | 12 1/2W | [M] |
| R958 | ERD2FCVJ4R7T | 4.7 1/4W | [M] |
| R959 | ERDS2TJ472T | 4.7K 1/4W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R960 | ERDS2TJ151T | 150 1/4W | [M] |
| R961 | ERDS2TJ332T | 3.3K 1/4W | [M] |
| R964 | ERC12UGK335D | 3.3M 1/2W | [M] |
| R972 | ERDS2TJ821T | 820 1/4W | [M] |
| R973 | ERDS2TJ393T | 39K 1/4W | [M] |
| R982 | ERDS1FVJ100T | 10 1/2W | [M] |
| R983 | ERDS1FVJ100T | 10 1/2W | [M] |
| R984 | ERDS1FVJ100T | 10 1/2W | [M] |
| R985 | ERDS1FVJ100T | 10 1/2W | [M] |
| R1000 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1001 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R1001 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R1002 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1003 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1004 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R1004 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1005 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1006 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1006 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1007 | ERD25FVJ4R7T | 4.7 1/4W | [M] |
| R1008 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1009 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R1010 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R1011 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1012 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1013 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1014 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1015 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1016 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1017 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1018 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R1019 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R1020 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1022 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1024 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R1026 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1027 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1028 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1029 | ERJ3GEYJ475V | 4.7M 1/16W | [M] |
| R1030 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R1031 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R1032 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1035 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1036 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1037 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1038 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1039 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R1040 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R1045 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1046 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1047 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1048 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1049 | ERJ3GEYJ105V | 1M 1/16W | [M] |
| R1050 | ERJ3GEYJ100V | 10 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R1050 | ERJ3GEYJ105V | 1M 1/16W | [M] |
| R1051 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1052 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1053 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R1054 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R1055 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1056 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1057 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1058 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R1059 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1060 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R1061 | ERJ3GEYJ2R7V | 2.7 1/16W | [M] |
| R1062 | ERJ3GEYJ2R7V | 2.7 1/16W | [M] |
| R1063 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1064 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1065 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1066 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1075 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1076 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1079 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1080 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1084 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1085 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R1086 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1087 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R1088 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R1089 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R1090 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1091 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1092 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1093 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1094 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1095 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1096 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1097 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1098 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1099 | ERJ6GEY0R00V | 0 1/10W | [M] |
| R1100 | ERJ6GEY0R00V | 0 1/10W | [M] |
| R1101 | ERJ6GEY0R00V | 0 1/10W | [M] |
| R1102 | ERJ6GEY0R00V | 0 1/10W | [M] |
| R1103 | ERJ6GEY0R00V | 0 1/10W | [M] |
| R1104 | ERJ6GEY0R00V | 0 1/10W | [M] |
| R1105 | ERJ6GEY0R00V | 0 1/10W | [M] |
| | | | |
| | | CAPACITORS | |
| | | | |
| C1 | ECBT1H5R6KC5 | 5.6P 50V | [M] |
| C1 | ECEA1CKA101B | 100 16V | [M] |
| C2 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C2 | RCBS1H102KBY | 1000P 50V | [M] |
| C3 | ECBT1H2R2KC5 | 2.2P 50V | [M] |
| C4 | ECBT1H181KB5 | 180P 50V | [M] |
| C5 | ECBT1H5R6KC5 | 5.6P 50V | [M] |
| C6 | ECBT1H3R3KC5 | 3.3P 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C7 | ECBT1H4R7KC5 | 4.7P 50V | [M] |
| C8 | ECBT1H3R3KC5 | 3.3P 50V | [M] |
| C9 | ECBT1H2R2KC5 | 2.2P 50V | [M] |
| C10 | ECBT1H180JC5 | 18P 50V | [M] |
| C11 | RCBS1H102KBY | 1000P 50V | [M] |
| C101 | ECUV1E103KBV | 0.01 25V | [M] |
| C102 | ECEA1CKA100B | 10 16V | [M] |
| C103 | ECUV1E103KBV | 0.01 25V | [M] |
| C104 | ECUV1H102KBV | 1000P 50V | [M] |
| C106 | ECUV1E103KBV | 0.01 25V | [M] |
| C107 | ECUV1E473ZFV | 0.047 25V | [M] |
| C108 | ECUV1H080DCV | 8P 50V | [M] |
| C109 | ECUV1H102KBV | 1000P 50V | [M] |
| C110 | ECUV1E103KBV | 0.01 25V | [M] |
| C111 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C112 | ECUV1E103KBV | 0.01 25V | [M] |
| C113 | ECUV1H102KBV | 1000P 50V | [M] |
| C114 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C115 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C116 | ECUV1C333KBV | 0.033 16V | [M] |
| C117 | ECUV1E103KBV | 0.01 25V | [M] |
| C118 | ECUV1E103KBV | 0.01 25V | [M] |
| C119 | ECQP2A681JZT | 680P 100V | [M] |
| C120 | ECEA1CKA100B | 10 16V | [M] |
| C121 | ECEA1HKAR47B | 0.47 50V | [M] |
| C122 | ECEA1HKA010B | 1 50V | [M] |
| C123 | ECEA1HKA010B | 1 50V | [M] |
| C124 | ECUV1H101KCV | 100P 50V | [M] |
| C125 | ECEA1CKA220B | 22 16V | [M] |
| C126 | ECUV1C105ZFN | 10 16V | [M] |
| C127 | ECEA1CKA220B | 22 16V | [M] |
| C129 | ECEA0JKA101B | 100 6.3V | [M] |
| C130 | ECEA0JKA101B | 100 6.3V | [M] |
| C131 | ECUV1H151JCV | 150P 50V | [M] |
| C132 | ECUV1H102KBV | 1000P 50V | [M] |
| C133 | ECUV1H270JCV | 27P 50V | [M] |
| C134 | ECUV1H270JCV | 27P 50V | [M] |
| C136 | ECUV1H102KBV | 1000P 50V | [M] |
| C137 | ECUV1H332KBV | 3300P 50V | [M] |
| C138 | ECUV1E103KBV | 0.01 25V | [M] |
| C139 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C141 | ECEA1HKA010B | 1 50V | [M] |
| C142 | ECEA1HKA010B | 1 50V | [M] |
| C143 | ECUV1H682KBV | 6800P 50V | [M] |
| C144 | ECUV1H682KBV | 6800P 50V | [M] |
| C147 | ECUV1H102KBV | 1000P 50V | [M] |
| C148 | ECUV1E103KBV | 0.01 25V | [M] |
| C149 | ECUV1C104ZFV | 0.1 16V | [M] |
| C201 | ECUV1H681KBV | 680P 50V | [M] |
| C202 | ECUV1H101KCV | 100P 50V | [M] |
| C203 | ECUV1H222KBV | 2200P 50V | [M] |
| C204 | ECEA1CKA100B | 10 16V | [M] |
| C205 | ECEA1HKA010B | 1 50V | [M] |
| C206 | ECEA1HKA010B | 1 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| **C207** | **ECEA1HKAR22B** | **0.22 50V** | **[M]** |
| **C208** | **ECEA1CKA100B** | **10 16V** | **[M]** |
| **C209** | **ECEA1HKA2R2B** | **2.2 50V** | **[M]** |
| **C210** | **ECEA1HKA2R2B** | **2.2 50V** | **[M]** |
| **C211** | **ECEA1HKA2R2B** | **2.2 50V** | **[M]** |
| **C212** | **ECEA1HKA4R7B** | **4.7 50V** | **[M]** |
| **C214** | **ECEA1CKA100B** | **10 16V** | **[M]** |
| **C215** | **ECUV1C104KBV** | **0.1 16V** | **[M]** |
| **C216** | **ECEA1HKAR33B** | **0.33 50V** | **[M]** |
| **C217** | **ECEA1HKAR33B** | **0.33 50V** | **[M]** |
| **C218** | **ECUV1C104KBV** | **0.1 16V** | **[M]** |
| **C219** | **ECUV1C104KBV** | **0.1 16V** | **[M]** |
| **C220** | **ECUV1H182KBV** | **1800P 50V** | **[M]** |
| **C221** | **ECEA1HKA2R2B** | **2.2 50V** | **[M]** |
| **C222** | **ECEA1CKA100B** | **10 16V** | **[M]** |
| **C223** | **ECUV1E103KBV** | **0.01 25V** | **[M]** |
| **C224** | **ECUV1H473KBV** | **0.047 50V** | **[M]** |
| **C225** | **ECUV1H101KCV** | **100P 50V** | **[M]** |
| **C226** | **ECEA1HKAR68B** | **0.68 50V** | **[M]** |
| **C227** | **ECUV1H101KCV** | **100P 50V** | **[M]** |
| **C228** | **ECUV1H470JCV** | **47P 50V** | **[M]** |
| **C229** | **ECEA1CKA100B** | **10 16V** | **[M]** |
| **C230** | **ECEA1CKA100B** | **10 16V** | **[M]** |
| **C231** | **ECUV1H102KBV** | **1000P 50V** | **[M]** |
| **C232** | **ECEA1HKAR33B** | **0.33 50V** | **[M]** |
| **C233** | **ECUV1H102KBV** | **1000P 50V** | **[M]** |
| **C234** | **ECUV1H682KBV** | **6800P 50V** | **[M]** |
| **C235** | **ECUV1H682KBV** | **6800P 50V** | **[M]** |
| **C236** | **ECEA1HKA010B** | **1 50V** | **[M]** |
| **C237** | **ECUV1H472KBV** | **4700P 50V** | **[M]** |
| **C238** | **ECUV1H182KBV** | **1800P 50V** | **[M]** |
| **C240** | **ECEA1HKAR22B** | **0.22 50V** | **[M]** |
| **C241** | **ECUV1C393KBV** | **0.039 16V** | **[M]** |
| **C242** | **ECUV1H682KBV** | **6800P 50V** | **[M]** |
| **C303** | **ECUV1H102KBV** | **1000P 50V** | **[M]** |
| **C304** | **ECUV1E103KBV** | **0.01 25V** | **[M]** |
| **C305** | **ECEA1CKA100B** | **10 16V** | **[M]** |
| **C306** | **ECEA1CKA100B** | **10 16V** | **[M]** |
| **C307** | **ECUV1H101KCV** | **100P 50V** | **[M]** |
| **C308** | **ECUV1H101KCV** | **100P 50V** | **[M]** |
| **C309** | **ECA1AM221B** | **220 10V** | **[M]** |
| **C310** | **ECEA1AKN100B** | **10 10V** | **[M]** |
| **C311** | **ECEA1CKA330B** | **33 16V** | **[M]** |
| **C318** | **ECUV1E103KBV** | **0.01 25V** | **[M]** |
| **C319** | **ECUV1E103KBV** | **0.01 25V** | **[M]** |
| **C320** | **ECUV1C474ZFV** | **0.47 16V** | **[M]** |
| **C321** | **ECUV1C104KBV** | **0.1 16V** | **[M]** |
| **C322** | **ECUV1C104KBV** | **0.1 16V** | **[M]** |
| **C333** | **ECKR1H102ZF5** | **1000P 50V** | **[M]** |
| **C336** | **ECUV1E103KBV** | **0.01 25V** | **[M]** |
| **C370** | **ECUV1E103KBV** | **0.01 25V** | **[M]** |
| **C371** | **ECUV1C104KBV** | **0.1 16V** | **[M]** |
| **C372** | **ECA1CM221B** | **220 16V** | **[M]** |
| **C373** | **RCE1HKN100BG** | **10P 50V** | **[M]** |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C374 | ECEA1CKA330B | 33 16V | [M] |
| C375 | ECEA1HM101B | 100 50V | [M] |
| C376 | ECUV1E103KBV | 0.01 25V | [M] |
| C377 | ECUV1E103KBV | 0.01 25V | [M] |
| C378 | ECEA1CKA100B | 10 16V | [M] |
| C401 | ECUV1H681KBV | 680P 50V | [M] |
| C402 | ECUV1H101KCV | 100P 50V | [M] |
| C403 | ECUV1H222KBV | 2200P 50V | [M] |
| C404 | ECEA1CKA100B | 10 16V | [M] |
| C405 | ECEA1HKA010B | 1 50V | [M] |
| C406 | ECEA1HKA010B | 1 50V | [M] |
| C407 | ECEA1HKAR22B | 0.22 50V | [M] |
| C408 | ECEA1CKA100B | 10 16V | [M] |
| C409 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C410 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C411 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C412 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C414 | ECEA1CKA100B | 10 16V | [M] |
| C415 | ECUV1C104KBV | 0.1 16V | [M] |
| C416 | ECEA1HKAR33B | 0.33 50V | [M] |
| C417 | ECEA1HKAR33B | 0.33 50V | [M] |
| C418 | ECUV1C104KBV | 0.1 16V | [M] |
| C419 | ECUV1C104KBV | 0.1 16V | [M] |
| C420 | ECUV1H182KBV | 1800P 50V | [M] |
| C421 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C422 | ECEA1CKA100B | 10 16V | [M] |
| C423 | ECUV1E103KBV | 0.01 25V | [M] |
| C424 | ECUV1H473KBV | 0.047 50V | [M] |
| C425 | ECUV1H101KCV | 100P 50V | [M] |
| C426 | ECEA1HKAR68B | 0.68 50V | [M] |
| C427 | ECUV1H101KCV | 100P 50V | [M] |
| C428 | ECUV1H470JCV | 47P 50V | [M] |
| C429 | ECEA1CKA100B | 10 16V | [M] |
| C430 | ECEA1CKA100B | 10 16V | [M] |
| C431 | ECUV1H102KBV | 1000P 50V | [M] |
| C432 | ECEA1HKAR33B | 0.33 50V | [M] |
| C433 | ECUV1H102KBV | 1000P 50V | [M] |
| C434 | ECUV1H682KBV | 6800P 50V | [M] |
| C435 | ECUV1H682KBV | 6800P 50V | [M] |
| C436 | ECEA1HKA010B | 1 50V | [M] |
| C437 | ECUV1H472KBV | 4700P 50V | [M] |
| C438 | ECUV1H182KBV | 1800P 50V | [M] |
| C440 | ECEA1HKAR22B | 0.22 50V | [M] |
| C441 | ECUV1C393KBV | 0.039 16V | [M] |
| C442 | ECUV1H682KBV | 6800P 50V | [M] |
| C500 | ECBT1H471KB5 | 470P 50V | [M] |
| C501 | ECBT1H471KB5 | 470P 50V | [M] |
| C502 | ECBT1H821KB5 | 820P 50V | [M] |
| C503 | ECBT1H821KB5 | 820P 50V | [M] |
| C504 | ECEA2AU100B | 10 100V | [M] |
| C505 | ECEA1HKA010B | 1 50V | [M] |
| C506 | ECEA1HKA010B | 1 50V | [M] |
| C507 | ECEA2AU100B | 10 100V | [M] |
| C508 | ECBT1H150J5 | 15P 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C509 | ECBT1H150J5 | 15P 50V | [M] |
| C510 | ECBT1H103KB5 | 0.01 50V | [M] |
| C511 | ECBT1H821KB5 | 820P 50V | [M] |
| C512 | ECBT1H471KB5 | 470P 50V | [M] |
| C513 | ECBT1H471KB5 | 470P 50V | [M] |
| C514 | ECBT1H821KB5 | 820P 50V | [M] |
| C515 | ECEA1HKA010B | 1 50V | [M] |
| C516 | ECQV1H184JL3 | 0.18 50V | [M] |
| C517 | ECKR1H103MD5 | 0.01 50V | [M] |
| C518 | ECA1EM101B | 100 25V | [M] |
| C519 | ECKR1H103MD5 | 0.01 50V | [M] |
| C520 | ECKR1H103MD5 | 0.01 50V | [M] |
| C521 | ECEA1CKA101B | 100 16V | [M] |
| C522 | ECKR1H103MD5 | 0.01 50V | [M] |
| C524 | ECKR1H103MD5 | 0.01 50V | [M] |
| C525 | ECEA1AKA330B | 33 10V | [M] |
| C526 | ECKR1H103MD5 | 0.01 50V | [M] |
| C527 | ECEA1EKA330B | 33 25V | [M] |
| C528 | RCEA1H222B-S | 2200P 50V | [M] ⚠ |
| C529 | RCEA1H222B-S | 2200P 50V | [M] ⚠ |
| C530 | ECEA0JKA221B | 220 6.3V | [M] |
| C531 | ECEA1HKA010B | 1 50V | [M] |
| C532 | ECEA2AU100B | 10 100V | [M] |
| C533 | ECBT1H150J5 | 15P 50V | [M] |
| C534 | ECBT1H150J5 | 15P 50V | [M] |
| C535 | ECEA2AU100B | 10 100V | [M] |
| C536 | ECBT1H103KB5 | 0.01 50V | [M] |
| C537 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C538 | ECEA1CKA100B | 10 16V | [M] |
| C539 | ECEA1EM101B | 100 25V | [M] |
| C540 | ECEA1CKA100B | 10 16V | [M] |
| C547 | ECBT1H102KB5 | 1000P 50V | [M] |
| C600 | ECEA0JKA101B | 100 6.3V | [M] |
| C601 | ECBT1H104ZF5 | 0.1 50V | [M] |
| C602 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C603 | ECBT1H331KB5 | 330P 50V | [M] |
| C604 | RCE1AM102B | 1000P 10V | [M] |
| C605 | ECBT1H102KB5 | 1000P 50V | [M] |
| C607 | ECBT1H561KB5 | 560P 50V | [M] |
| C608 | ECBT1H561KB5 | 560P 50V | [M] |
| C609 | ECBT1H561KB5 | 560P 50V | [M] |
| C610 | ECBT1H561KB5 | 560P 50V | [M] |
| C611 | ECBT1H561KB5 | 560P 50V | [M] |
| C612 | ECBT1H561KB5 | 560P 50V | [M] |
| C613 | ECBT1H561KB5 | 560P 50V | [M] |
| C614 | ECBT1H561KB5 | 560P 50V | [M] |
| C616 | ECBT1H561KB5 | 560P 50V | [M] |
| C617 | ECBT1H561KB5 | 560P 50V | [M] |
| C618 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C619 | ECEA1AKA220B | 22 10V | [M] |
| C620 | ECBT1H680J5 | 68P 50V | [M] |
| C621 | ECBT1H680J5 | 68P 50V | [M] |
| C622 | ECBT1H150JC5 | 15P 50V | [M] |
| C623 | ECBT1H180JC5 | 18P 50V | [M] |

|  |  |  |  |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C624 | ECBT1H560J5 | 56P 50V | [M] |
| C625 | ECBT1H102KB5 | 1000P 50V | [M] |
| C626 | ECBT1H560J5 | 56P 50V | [M] |
| C627 | ECBT1H102KB5 | 1000P 50V | [M] |
| C628 | ECBT1E223ZF5 | 0.022 25V | [M] |
| C629 | ECBT1H331KB5 | 330P 50V | [M] |
| C639 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C640 | ECEA1VKA220B | 22 35V | [M] |
| C641 | ECEA1VKA220B | 22 35V | [M] |
| C642 | ECBT1H101KB5 | 100P 50V | [M] |
| C643 | ECBT1H101KB5 | 100P 50V | [M] |
| C644 | ECEA1HKA010B | 1 50V | [M] |
| C645 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C646 | ECBT1H330J5 | 33P 50V | [M] |
| C647 | ECBT1H330J5 | 33P 50V | [M] |
| C649 | ECBT1H331KB5 | 330P 50V | [M] |
| C651 | ECBT1H103KB5 | 0.01 50V | [M] |
| C652 | ECBT1H103KB5 | 0.01 50V | [M] |
| C653 | ECBT1H101KB5 | 100P 50V | [M] |
| C654 | ECBT1H101KB5 | 100P 50V | [M] |
| C655 | ECBT1H102KB5 | 1000P 50V | [M] |
| C656 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C657 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C658 | ECEA1VKA4R7B | 4.7 35V | [M] |
| C669 | ECEA0JKA470B | 47 6.3V | [M] |
| C670 | ECBT1H473KB5 | 0.047 50V | [M] |
| C671 | ECBT1E223ZF5 | 0.022 25V | [M] |
| C672 | ECBT1E223ZF5 | 0.022 25V | [M] |
| C701 | ECEA0JKA330I | 33 6.3V | [M] |
| C702 | ECUVNC104KBV | 0.1 16V | [M] |
| C703 | ECEA0JKA101I | 100 6.3V | [M] |
| C704 | ECUVNC104KBV | 0.1 16V | [M] |
| C706 | ECUV1H272KBV | 2700P 50V | [M] |
| C707 | ECUV1E273KBV | 0.027 25V | [M] |
| C710 | ECUV1H121KCV | 120P 50V | [M] |
| C711 | ECUV1C104ZFV | 0.1 16V | [M] |
| C712 | ECUV1C104ZFV | 0.1 16V | [M] |
| C713 | ECUVNC104KBV | 0.1 16V | [M] |
| C714 | ECEA0JKA101I | 100 6.3V | [M] |
| C715 | ECUV1H272KBV | 2700P 50V | [M] |
| C716 | ECUV1H122KBV | 1200P 50V | [M] |
| C717 | ECUV1C104ZFV | 0.1 16V | [M] |
| C718 | ECUVNJ474KBV | 0.47 6.3V | [M] |
| C721 | ECUV1H100DCV | 10P 50V | [M] |
| C722 | ECUV1H100DCV | 10P 50V | [M] |
| C723 | ECEA1AKA221I | 220 10V | [M] |
| C724 | ECUZNE104MBN | 0.1 25V | [M] |
| C725 | ECUV1H102KBV | 1000P 50V | [M] |
| C726 | ECUV1H102KBV | 1000P 50V | [M] |
| C730 | ECUV1C104ZFV | 0.1 16V | [M] |
| C731 | ECEA0JKA221I | 220 6.3V | [M] |
| C732 | ECEA0JKA221I | 220 6.3V | [M] |
| C733 | ECUVNC104KBV | 0.1 16V | [M] |
| C734 | ECEA1AKA221I | 220 10V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C735 | ECUV1C104ZFV | 0.1 16V | [M] |
| C736 | ECUVNC104ZFV | 0.1 16V | [M] |
| C737 | ECUVNC104ZFV | 0.1 16V | [M] |
| C738 | ECUV1H103KBN | 0.01 50V | [M] |
| C739 | ECUV1H152KBV | 1500P 50V | [M] |
| C742 | ECUV1E273KBV | 0.027 25V | [M] |
| C743 | ECUVNC104ZFV | 0.1 16V | [M] |
| C744 | ECUV1H223KBV | 0.022 50V | [M] |
| C745 | ECUV1H102KBV | 1000P 50V | [M] |
| C747 | ECUV1H181KCV | 180P 50V | [M] |
| C749 | ECUV1H182KBV | 1800P 50V | [M] |
| C750 | ECUZNE104MBN | 0.1 25V | [M] |
| C751 | ECUVNC104KBV | 0.1 16V | [M] |
| C752 | ECUV1H152KBV | 1500P 50V | [M] |
| C753 | ECUV1H471KBM | 470P 50V | [M] |
| C770 | ECUVNC104KBV | 0.1 16V | [M] |
| C801 | ECUV1H223KBV | 0.022 50V | [M] |
| C802 | ECUV1H331KBV | 330P 50V | [M] |
| C803 | ECUV1H102KBV | 1000P 50V | [M] |
| C804 | ECEA0JKA101B | 100 6.3V | [M] |
| C805 | ECEA1AKA101B | 100 10V | [M] |
| C806 | ECUV1H471KBV | 470P 50V | [M] |
| C807 | ECUV1H101KCV | 100P 50V | [M] |
| C808 | ECUV1H101KCV | 100P 50V | [M] |
| C809 | ECUV1H101KCV | 100P 50V | [M] |
| C810 | ECUV1H102KBV | 1000P 50V | [M] |
| C811 | ECUV1C474ZFV | 0.47 16V | [M] |
| C812 | ECUV1H100JCV | 10P 50V | [M] |
| C814 | ECUV1H100JCV | 10P 50V | [M] |
| C815 | ECUV1H100JCV | 10P 50V | [M] |
| C816 | ECUV1E103KBV | 0.01 25V | [M] |
| C817 | ECUV1H100JCV | 10P 50V | [M] |
| C818 | ECUV1H330JCV | 33P 50V | [M] |
| C819 | ECUV1H330JCV | 33P 50V | [M] |
| C820 | ECUV1C104KBV | 0.1 16V | [M] |
| C822 | ECEA0JKA101B | 100 6.3V | [M] |
| C823 | ECUV1H102KBV | 1000P 50V | [M] |
| C824 | ECEA0JKA101B | 100 6.3V | [M] |
| C828 | ECEA0JKA221B | 220 6.3V | [M] |
| C829 | ECEA1AKA101B | 100 10V | [M] |
| C830 | ECEA1AKA101B | 100 10V | [M] |
| C831 | EEUFC1A681LB | 680 10V | [M] |
| C832 | ECEA1HM101B | 100 50V | [M] |
| C833 | ECUV1A224KBV | 0.22 10V | [M] |
| C950 | RCA1CM102BT | 1000P 16V | [M] |
| C951 | RCA1CM102BT | 1000P 16V | [M] |
| C952 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C953 | ECKR1H103MD5 | 0.01 50V | [M] |
| C954 | ECEA1AKA470B | 47 10V | [M] |
| C955 | ECQE1104KF3 | 0.1 100V | [M] |
| C956 | ECKR1H103MD5 | 0.01 50V | [M] |
| C957 | ECEA1JM101B | 100 63V | [M] |
| C960 | RCEA1E222B-S | 2200P 25V | [M] ⚠ |
| C961 | ECA2AM100B | 10 100V | [M] |

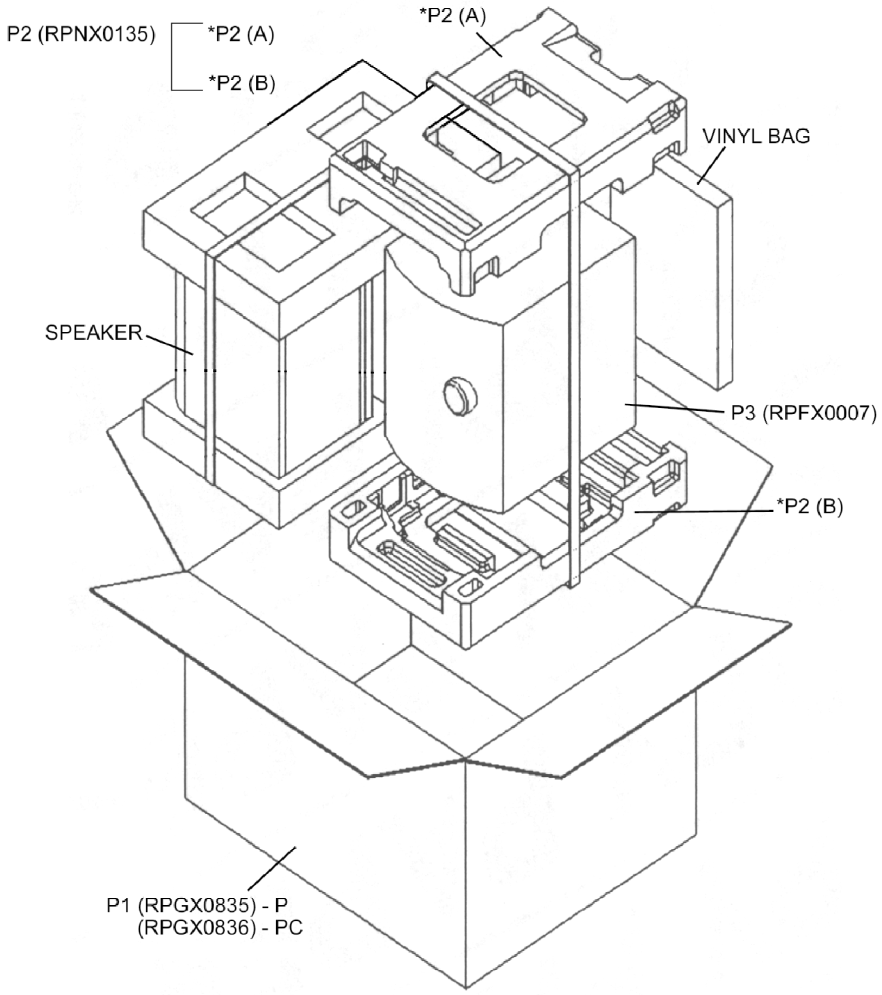
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C962 | ECEA1HM101B | 100 50V | [M] |
| C964 | ECKR2H103ZF5 | 0.01 500V | [M] |
| C982 | ECBT1H473KB5 | 0.047 50V | [M] |
| C983 | ECBT1H473KB5 | 0.047 50V | [M] |
| C984 | ECBT1H473KB5 | 0.047 50V | [M] |
| C985 | ECBT1H473KB5 | 0.047 50V | [M] |
| C1000 | ECUV1C473KBV | 0.047 16V | [M] |
| C1001 | ECUV1C104KBV | 0.1 16V | [M] |
| C1001 | ECUV1H103ZFV | 0.01 50V | [M] |
| C1002 | ECEA1HKN2R2B | 2.2 50V | [M] |
| C1002 | ECUV1C104KBV | 0.1 16V | [M] |
| C1003 | ECQP1152JZT | 1500P 100V | [M] |
| C1003 | ECUV1C104KBV | 0.1 16V | [M] |
| C1004 | ECUV1C104KBV | 0.1 16V | [M] |
| C1005 | ECUV1C104KBV | 0.1 16V | [M] |
| C1006 | ECEA1HKA010B | 1 50V | [M] |
| C1006 | ECUV1C104KBV | 0.1 16V | [M] |
| C1007 | ECQP2A472JZT | 4700P 100V | [M] |
| C1007 | ECUV1C104KBV | 0.1 16V | [M] |
| C1008 | ECEA1HKA010B | 1 50V | [M] |
| C1008 | ECUV1C104KBV | 0.1 16V | [M] |
| C1009 | ECEA1CKA470B | 47 16V | [M] |
| C1009 | ECUV1C104KBV | 0.1 16V | [M] |
| C1010 | ECA1EM101B | 100 25V | [M] |
| C1010 | ECUV1C104KBV | 0.1 16V | [M] |
| C1011 | ECQV1H473JL3 | 0.047 50V | [M] |
| C1011 | ECUV1C223KBV | 0.022 16V | [M] |
| C1012 | ECUV1C223KBV | 0.022 16V | [M] |
| C1012 | ECUV1H102KBV | 1000P 50V | [M] |
| C1013 | ECUV1H102KBV | 1000P 50V | [M] |
| C1014 | ECUV1H102KBV | 1000P 50V | [M] |
| C1015 | ECUV1H102KBV | 1000P 50V | [M] |
| C1016 | ECUV1H222KBV | 2200P 50V | [M] |
| C1017 | ECUV1H222KBV | 2200P 50V | [M] |
| C1018 | ECUV1H103KBV | 0.01 50V | [M] |
| C1019 | ECUV1H102KBV | 1000P 50V | [M] |
| C1020 | ECUV1H471KBV | 470P 50V | [M] |
| C1021 | ECUV1H471KBV | 470P 50V | [M] |
| C1022 | ECUV1H102KBV | 1000P 50V | [M] |
| C1023 | ECUV1H102KBV | 1000P 50V | [M] |
| C1026 | ECEA0JKA470B | 47 6.3V | [M] |
| C1027 | ECUV1H102KBV | 1000P 50V | [M] |
| C1030 | ECEA1AKA101B | 100 10V | [M] |
| C1031 | ECEA1AKA101B | 100 10V | [M] |
| C1032 | ECFR1C183KR | 0.018 16V | [M] |
| C1033 | ECFR1C183KR | 0.018 16V | [M] |
| C1034 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1035 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1036 | ECUV1C333KBV | 0.033 16V | [M] |
| C1037 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1038 | ECUV1H221KBV | 220P 50V | [M] |
| C1039 | ECUV1H221KBV | 220P 50V | [M] |
| C1040 | ECEA1CKA100B | 10 16V | [M] |
| C1041 | ECEA1CKA100B | 10 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C1042 | ECEA1CKA220B | 22 16V | [M] |
| C1043 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C1044 | ECEA1AKA330B | 33 10V | [M] |
| C1045 | ECEA1AKA220B | 22 10V | [M] |
| C1046 | ECEA1CKA221B | 220 16V | [M] |
| C1047 | ECEA1HKA010B | 1 50V | [M] |
| C1048 | ECEA1HKA010B | 1 50V | [M] |
| C1049 | ECUV1H102KBV | 1000P 50V | [M] |
| C1050 | ECUV1H102KBV | 1000P 50V | [M] |
| C1051 | ECEA1HKA010B | 1 50V | [M] |
| C1052 | ECEA1HKA010B | 1 50V | [M] |
| C1053 | ECEA1CKA221B | 220 16V | [M] |
| C1054 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1055 | ECEA1HKA0R1B | 0.1 50V | [M] |
| C1059 | ECUV1H101KCV | 100P 50V | [M] |
| C1061 | ECUV1H101KCV | 100P 50V | [M] |
| C1062 | ECUV1C104ZFV | 0.1 16V | [M] |
| C1064 | ECEA1HKA3R3B | 3.3 50V | [M] |
| | | | |
| | | CHIP JUMPER | |
| | | | |
| RJ701 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ702 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ703 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ705 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ706 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ707 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ708 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ709 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ710 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ711 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ712 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ713 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ714 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ715 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ716 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ731 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ732 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ733 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ734 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ761 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ762 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ763 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ764 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ765 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ767 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ768 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ769 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ770 | ERJ8GEY0R00V | 0 1/8W | [M] |
| RJ771 | ERJ8GEY0R00V | 0 1/8W | [M] |
| | | | |
| | | TEST JUMPER | |
| | | | |
| TJ701 | EYF8CU | TEST JUMPER | [M] |

## 20.5. Packing Materials & Accessories Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | PACKING MATERIALS | |
| | | | |
| P1 | RPGX0835 | PACKING CASE | [M]P |
| P1 | RPGX0836 | PACKING CASE | [M]PC |
| P2 | RPNX0135 | POLYFOAM | [M] |
| P3 | RPFX0007 | MIRAMAT BAG | [M] |
| | | | |
| | | ACCESSORIES | |
| | | | |
| A1 | N2QAGB000015 | REMOTE CONTROL | [M] |
| A1-1 | BBN11M202A | R/C BATTERY COVER | [M] |
| A2 | RJA0065-1D | AC CORD | [M] ⚠ |
| A3 | RQT6085-2P | O/I BOOK | [M] |
| A3 | RQT6086-1M | O/I BOOK | [M]P |
| A3 | RQT6126-C | O/I BOOK | [M]PC |
| A4 | RSA0006-J | FM ANTENNA | [M] |
| A5 | RSA0033 | AM LOOP ANTENNA | [M] |

## 20.6. Packaging


P2 (RPNX0135)
*P2 (A)
*P2 (B)
*P2 (A)
VINYL BAG
SPEAKER
P3 (RPFX0007)
*P2 (B)
P1 (RPGX0835) - P
(RPGX0836) - PC

**Printed in Singapore / P020100001 D/K/J/N/L/PRT**

A
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C
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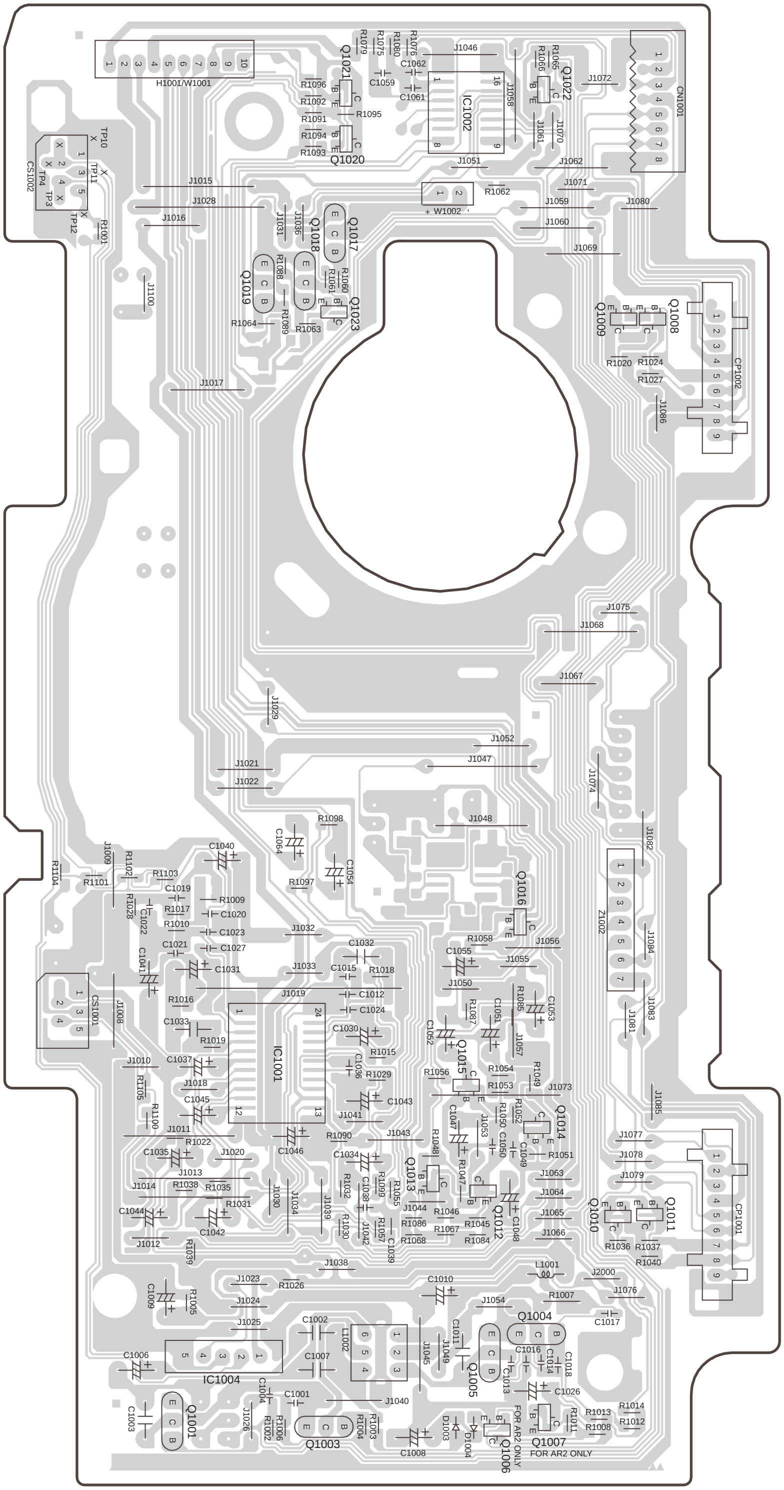
## E DECK P.C.B. (REPX0282A)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CN1001
CP1002
CP1001
CS1002
CS1001
TP10
TP11
TP12
TP3
TP4
IC1001
IC1002
IC1004
Z1002
W1002
L1001
L1002
Q1001
Q1003
Q1004
Q1005
Q1006
Q1007
Q1008
Q1009
Q1010
Q1011
Q1012
Q1013
Q1014
Q1015
Q1016
Q1017
Q1018
Q1019
Q1020
Q1021
Q1022
Q1023
D1003
D1004
FOR AR2 ONLY
J1015
J1016
J1017
J1028
J1031
J1036
J1046
J1051
J1058
J1059
J1060
J1061
J1062
J1069
J1070
J1071
J1072
J1080
J1086
J1100
J1075
J1068
J1067
J1029
J1052
J1047
J1021
J1022
J1074
J1048
J1082
J1084
J1083
J1081
J1085
J1056
J1055
J1050
J1057
J1073
J1077
J1078
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J1063
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J1066
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J1008
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J1041
J1042
J1043
J1044
J1038
J1023
J1024
J1025
J1026
J1040
J1045
J1049
J1053
J1054
J1076
J2000
R1001
R1020
R1024
R1027
R1060
R1061
R1062
R1063
R1064
R1065
R1066
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R1100
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R1103
R1104
R1105
R1009
R1010
R1015
R1016
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R1018
R1019
R1022
R1028
R1029
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R1032
R1035
R1036
R1037
R1038
R1039
R1040
R1045
R1046
R1047
R1048
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R1068
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R1085
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R1087
R1090
R1099
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R1003
R1004
R1005
R1006
R1007
R1008
R1011
R1012
R1013
R1014
R1026
R1030
C1001
C1002
C1003
C1004
C1006
C1007
C1008
C1009
C1010
C1011
C1012
C1013
C1014
C1015
C1016
C1017
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C1023
C1024
C1026
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C1031
C1032
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C1034
C1035
C1036
C1037
C1038
C1039
C1040
C1041
C1042
C1043
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C1045
C1046
C1047
C1048
C1049
C1050
C1051
C1052
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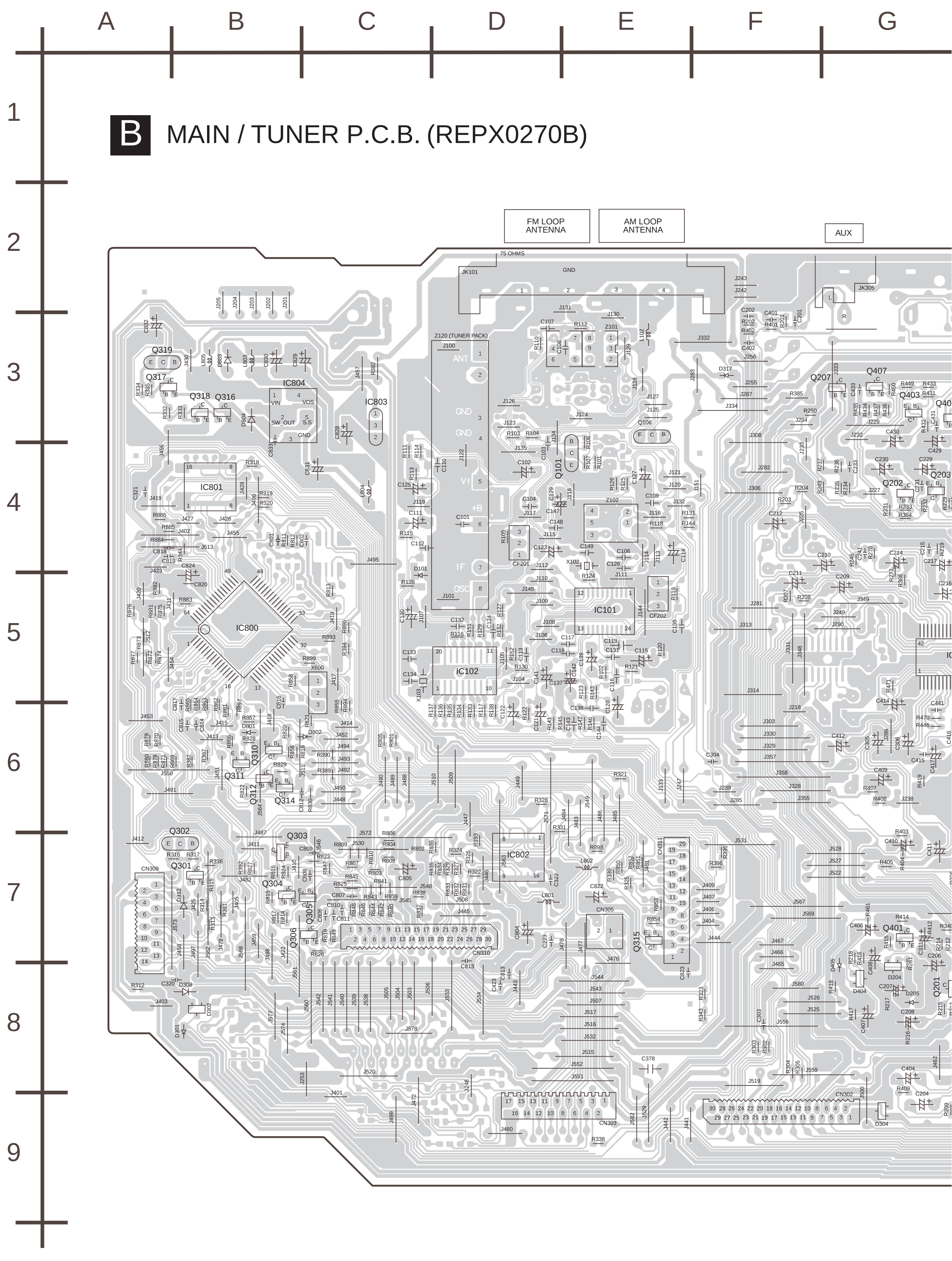
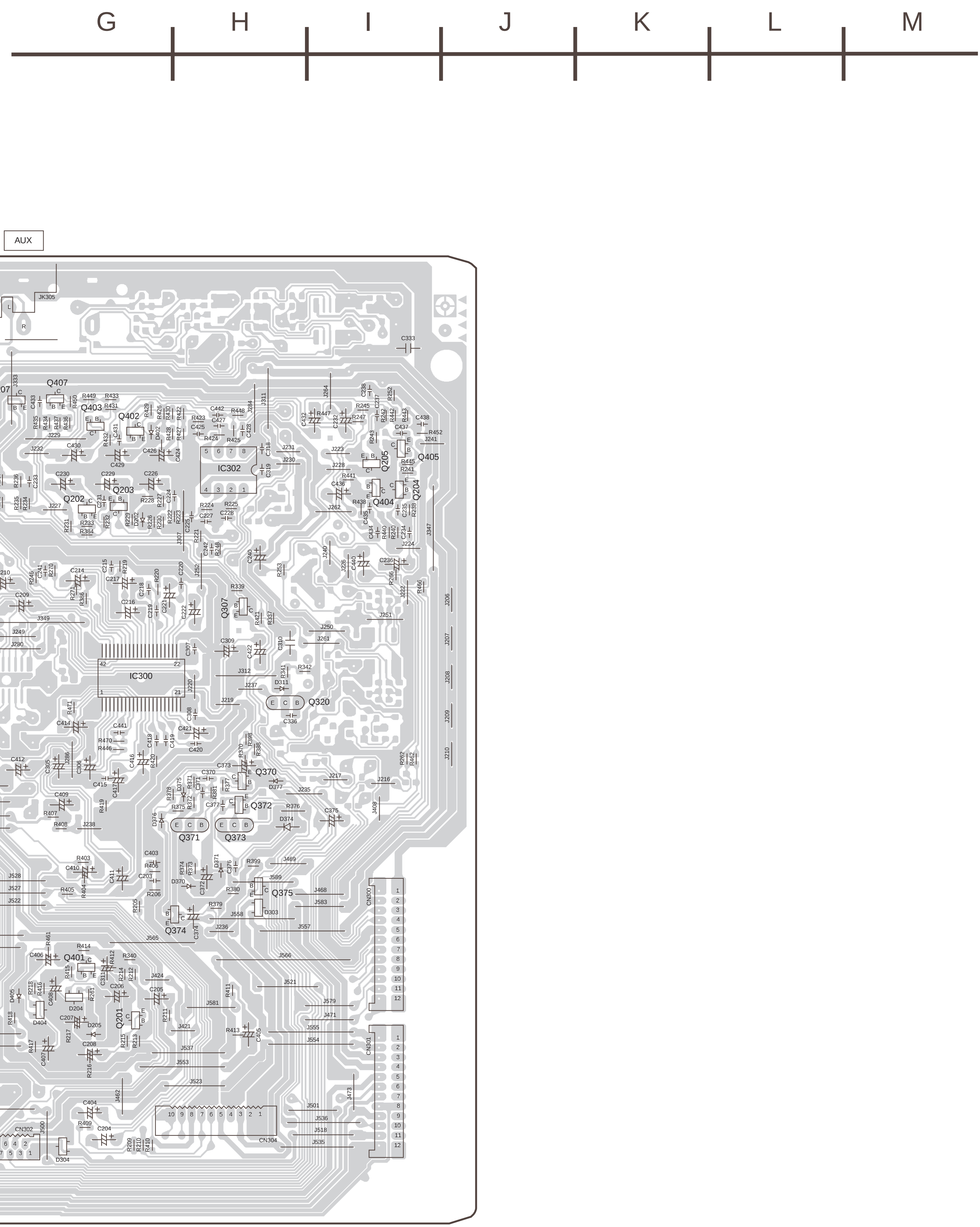
C1054
C1055
C1059
C1061
C1062
C1064

## B MAIN / TUNER P.C.B. (REPX0270B)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
FM LOOP ANTENNA
AM LOOP ANTENNA
AUX
75 OHMS
GND
JK101
JK305
Z120 (TUNER PACK)
ANT
GND
Vt
+B
IF
OSC
IC800
IC801
IC802
IC803
IC804
IC101
IC102
Z101
Z102
X600
X102
X103
CF201
CF202
Q101
Q106
Q202
Q203
Q207
Q301
Q302
Q303
Q304
Q305
Q306
Q310
Q311
Q312
Q314
Q315
Q316
Q317
Q318
Q319
Q401
Q403
Q407
CN302
CN303
CN305
CN309
CN310
CN311

G
H
I
J
K
L
M
AUX
JK305
L
R
C333
Q407
Q403
Q402
Q405
Q205
Q204
Q404
Q202
Q203
IC302
IC300
Q307
Q320
Q370
Q372
Q371
Q373
Q375
Q374
Q401
Q201
CN300
CN301
CN302
CN304
D304
D303
D204
D404
D205
D405
C404
C204
C405
C206
C205
C207
C208
C407
C408
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C411
C412
C414
C415
C416
C417
C418
C419
C420
C421
C422
C429
C430
C426
C230
C229
C226
C436
C440
C236
C240
C214
C209
C216
C307
C308
C309
C310
C373
C370
C375
C374
C372
J206
J207
J208
J209
J210
J251
J250
J261
J312
J237
J219
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J469
J468
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J566
J521
J579
J471
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J424
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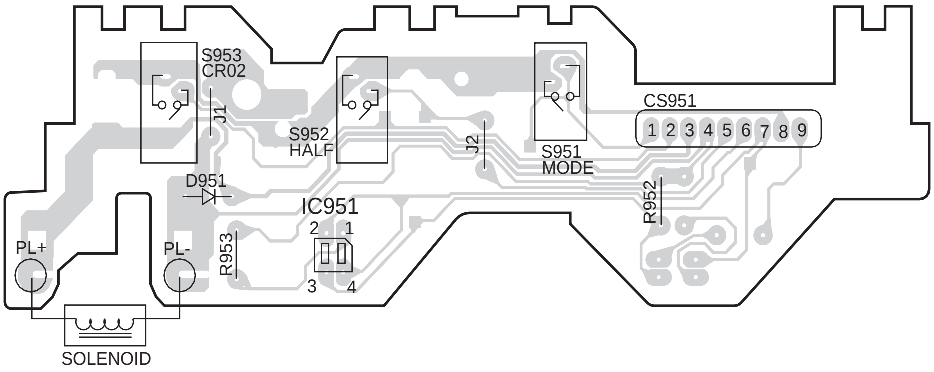
J280
J528
J527
J522
J229
J232
J227
J231
J230
J223
J228
J262
J224
J241
J347
J311
J284
J264
J333

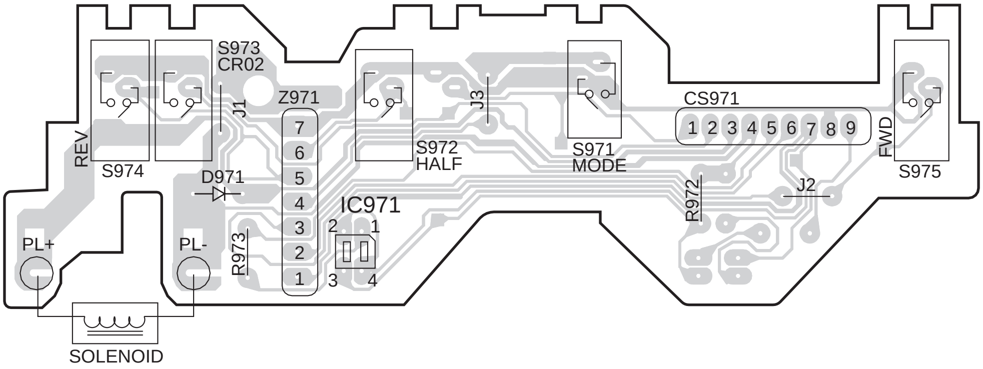
A B C D E F G

1 2 3 4 5 6 7 8 9

## F MECHANISM (DECK1) P.C.B (REPX0108H)


S953
CR02
J1
S952
HALF
J2
S951
MODE
CS951
1 2 3 4 5 6 7 8 9
D951
IC951
2 1
3 4
R953
R952
PL+
PL-
SOLENOID

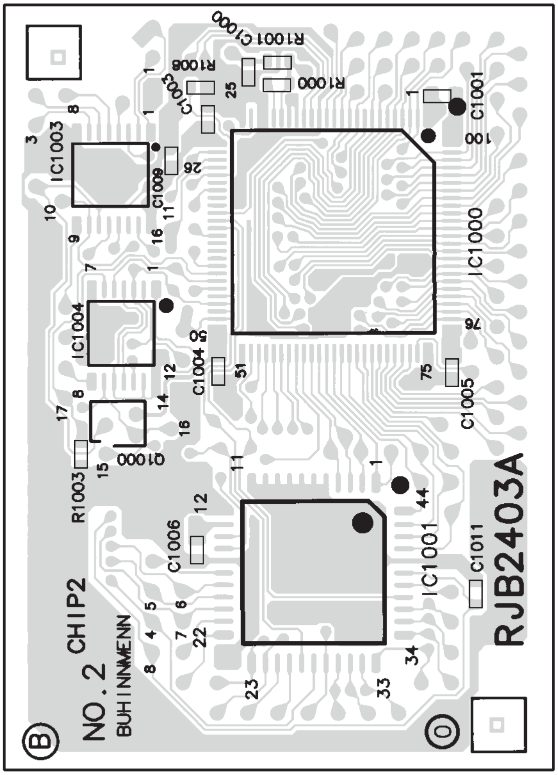
## G MECHANISM (DECK2) P.C.B (REPX0108F)


S973
CR02
J1
Z971
7
6
5
4
3
2
1
REV
S974
D971
IC971
2 1
3 4
R973
S972
HALF
J3
S971
MODE
CS971
1 2 3 4 5 6 7 8 9
FWD
S975
J2
R972
PL+
PL-
SOLENOID

A B C D E F G

1 2 3 4 5 6 7 8 9

## U MP3 Module P.C.B (REP3122A-T)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C1000
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C1003
R1000
C1001
IC1003
C1009
IC1000
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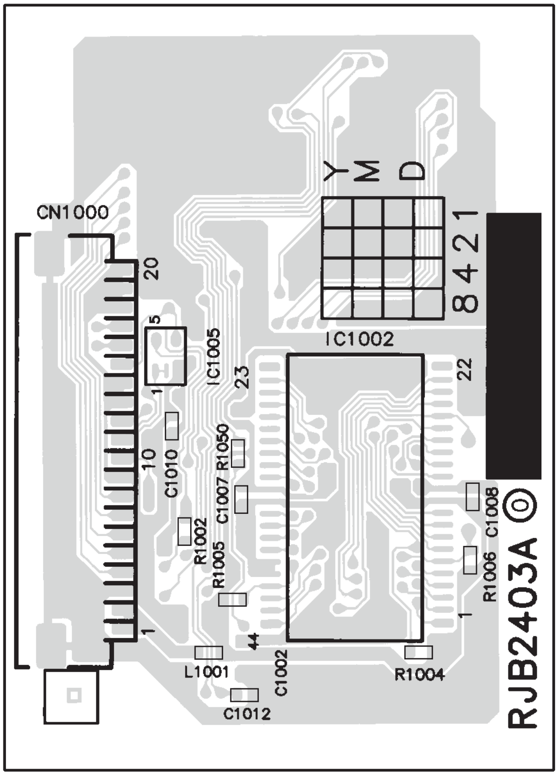
C1004
C1005
Q1000
R1003
C1006
IC1001
C1011
RJB24403A
CHIP2
NO.2
BUHINNMENN
B
1
3
8
10
9
7
11
16
25
26
51
75
76
100
12
14
15
16
17
44
34
33
23
22
4
5
6
8

SIDE:A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Y
M
D
8 4 2 1
20
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1
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IC1005
IC1002
23
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44
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C1007
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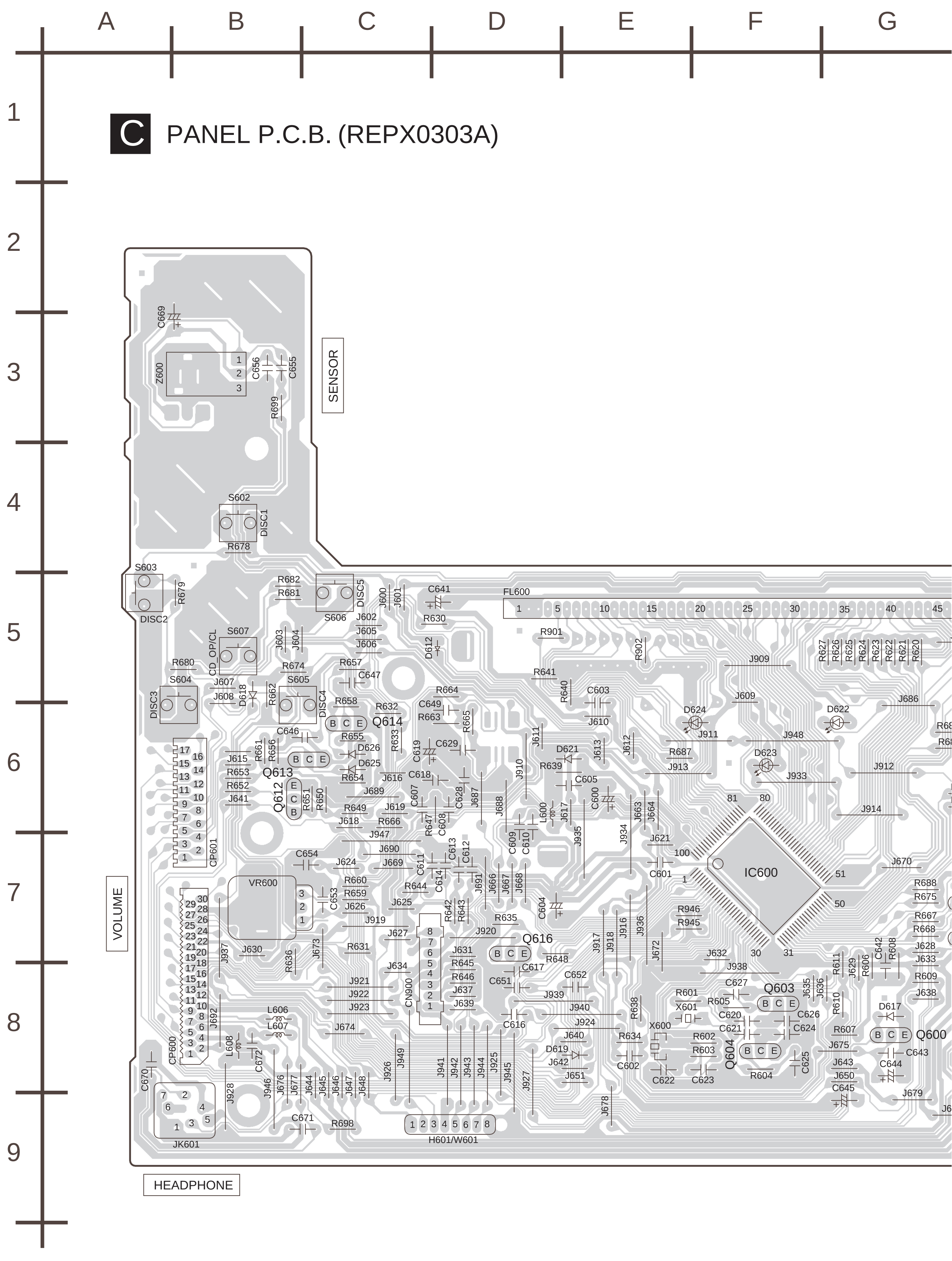
R1002
R1005
L1001
C1012
C1002
R1004
R1006
C1008
RJB24403A

SIDE:B

# C PANEL P.C.B. (REPX0303A)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B
C
D
E
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G
1
2
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4
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6
7
8
9
C669
Z600
1
2
3
C656
C655
R699
SENSOR
S602
DISC1
R678
S603
R679
DISC2
R682
R681
S606
DISC5
J600
J601
C641
R630
FL600
1
5
10
15
20
25
30
35
40
45
R901
R902
J909
R627
R626
R625
R624
R623
R622
R621
R620
S607
CD_OP/CL
J603
J604
J602
J605
J606
D612
R680
S604
DISC3
J607
J608
D618
R662
R674
S605
DISC4
R657
C647
R641
R640
C603
J610
J609
D624
J911
D622
J686
R658
R632
Q614
B C E
C649
R663
R664
R665
C646
R655
D626
R633
C619
C629
J611
D621
J613
J612
R687
J913
J948
D623
J933
J912
CP601
17
16
15
14
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12
11
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8
7
6
5
4
3
2
1
J615
R653
R652
J641
R661
R656
Q613
Q612
E C B
R651
R650
D625
R654
J616
C618
J689
R649
J619
J618
R666
J947
C607
R647
C608
C628
J687
J688
J910
R639
C605
C600
L600
J617
J935
J934
J663
J664
J621
81
80
J914
100
1
IC600
51
50
30
31
C601
J670
C654
J624
J690
J669
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C612
C614
J691
J666
J667
J668
C604
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R675
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J628
J633
R609
J638
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2
1
C653
R660
R659
J626
R644
J625
J919
R642
R643
R635
J920
Q616
J627
J917
J918
J916
J936
J672
R946
R945
J632
J938
R611
J629
R606
C642
R608
CP600
30
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3
2
1
J937
J630
R636
J673
R631
J634
CN900
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7
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5
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3
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1
J631
R645
R646
J637
J639
R648
C617
C651
C652
J939
J940
J924
J921
J922
J923
J692
L606
L607
L608
C672
J674
C616
R638
R601
X601
R605
C627
Q603
C620
C621
C626
C624
J635
J636
R610
D617
R607
Q600
X600
R634
R602
R603
Q604
C602
C622
C623
R604
C625
J675
C643
C644
J643
J650
C645
J679
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D619
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J651
J678
C670
JK601
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J949
J941
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H601/W601
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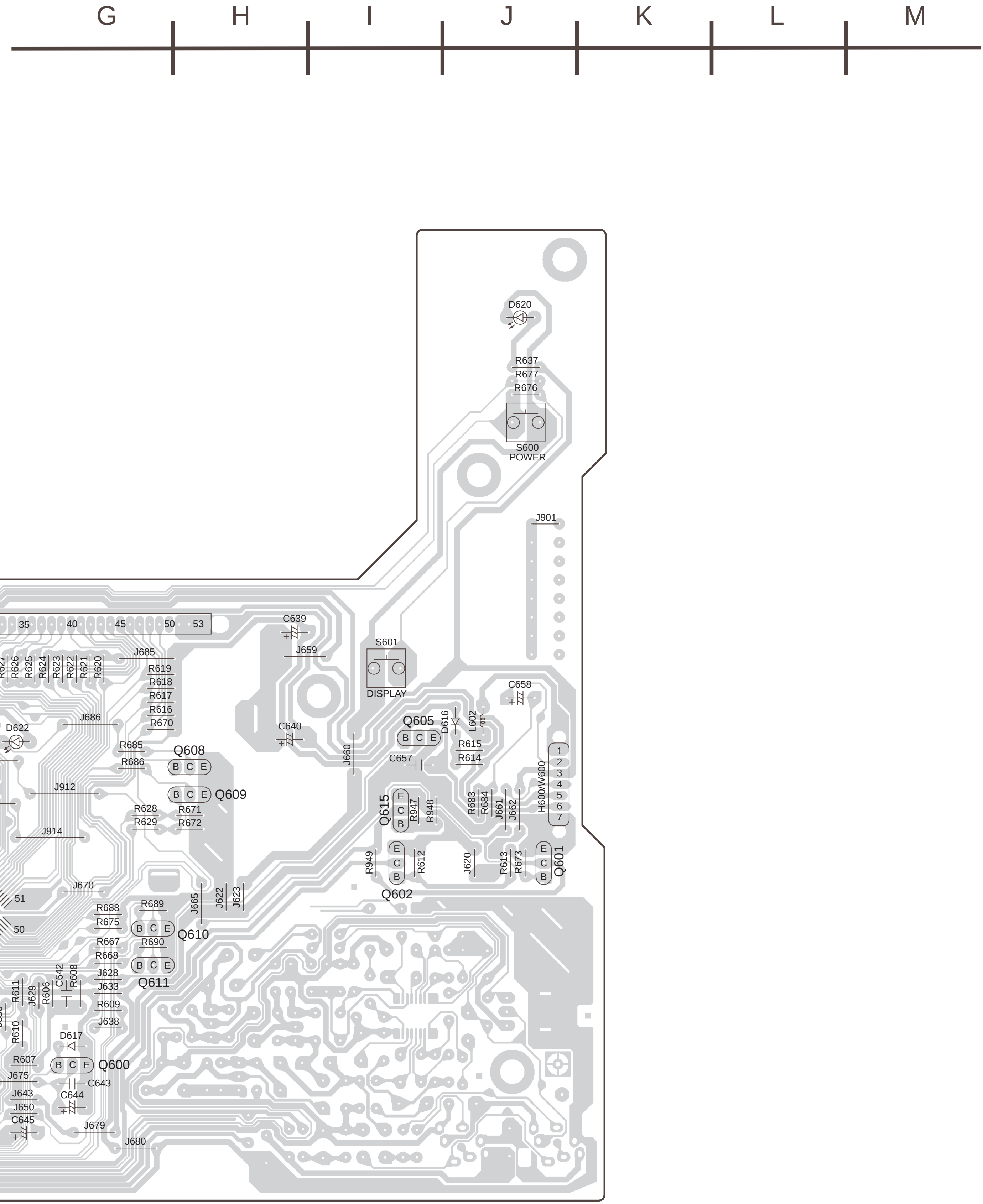
HEADPHONE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H
I
J
K
L
M
D620
R637
R677
R676
S600
POWER
J901
35
40
45
50
53
C639
J659
S601
DISPLAY
J685
R627
R626
R625
R624
R623
R622
R621
R620
R619
R618
R617
R616
R670
J686
C658
C640
Q605
B C E
D616
L602
D622
R685
Q608
B C E
R686
R615
R614
C657
J660
J912
B C E
Q609
1
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3
4
5
6
7
H600/W600
Q615
E C B
R947
R948
R683
R684
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J662
R628
R629
R671
R672
J914
R949
E C B
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J620
R613
R673
E C B
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Q602
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Q611
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J628
J633
R611
J629
R606
R609
J638
R610
D617
R607
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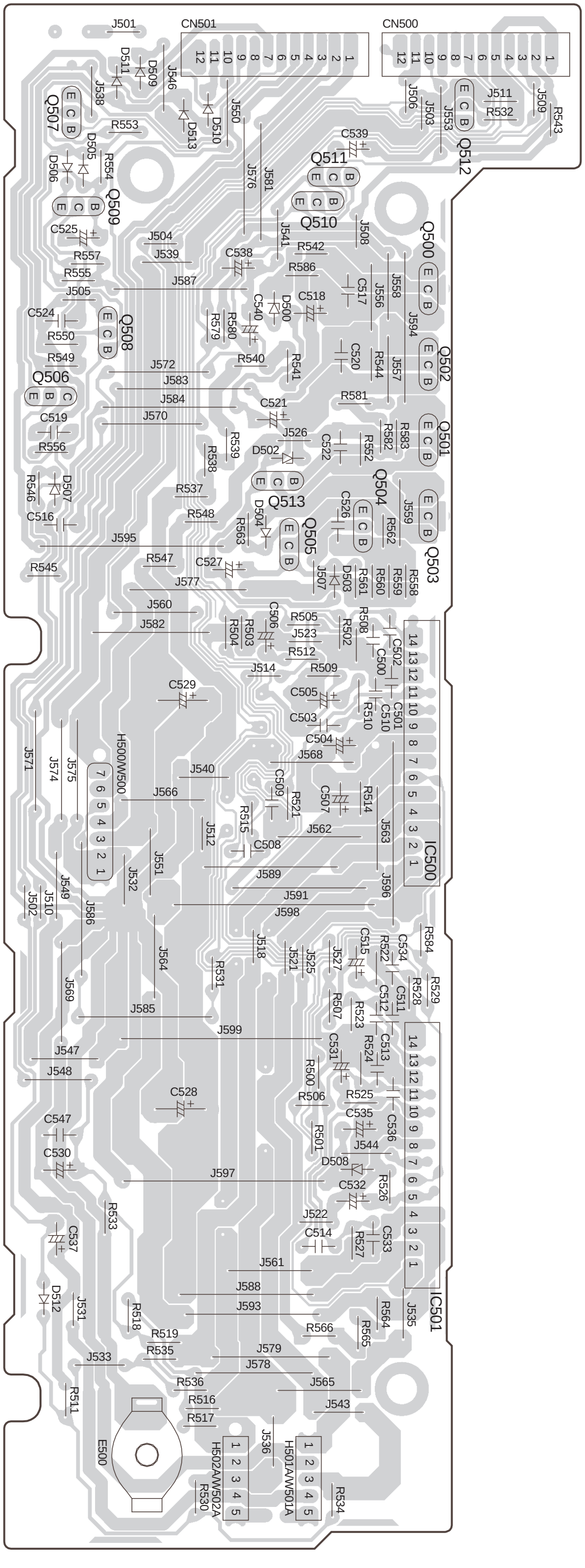
# **H** POWER P.C.B (REPX0272C)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B
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3
4
5
6
7
8
9
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CN501
CN500
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12 11 10 9 8 7 6 5 4 3 2 1
D511
D509
J546
J538
Q507
E C B
J550
D510
D513
J506
J503
J553
J511
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R553
C539
D505
D506
R554
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E C B
Q510
E C B
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J581
Q509
E C B
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J504
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C538
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Q500
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C518
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R580
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R550
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R549
J572
R540
R541
C520
R544
J557
Q502
E C B
Q506
E B C
J583
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R581
C519
J570
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J526
R539
R538
C522
R552
R582
R583
Q501
E C B
R556
D502
R546
D507
Q513
E C B
Q504
R537
C526
J559
C516
R548
D504
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Q505
E C B
R562
Q503
E C B
J595
R547
C527
J507
D503
R561
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R559
R558
R545
J577
J560
C506
R505
R508
J582
R504
R503
J523
R502
R512
C502
C500
14 13 12 11 10 9 8 7 6 5 4 3 2 1
IC500
J514
R509
C529
C505
R510
C501
C510
C503
C504
J568
H500/W500
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J571
J574
J575
J540
J566
C509
R521
C507
R514
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J563
C508
J562
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J510
J502
J586
J591
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J525
J527
C515
R522
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R584
R531
R528
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R523
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J599
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J522
C537
C514
R527
C533
IC501
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D512
J588
J531
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R565
R519
R535
J579
J533
J578
R536
J565
R511
R516
J543
R517
J536
E500
H502A/W502A
1 2 3 4 5
H501A/W501A
1 2 3 4 5
R530
R534

A
B
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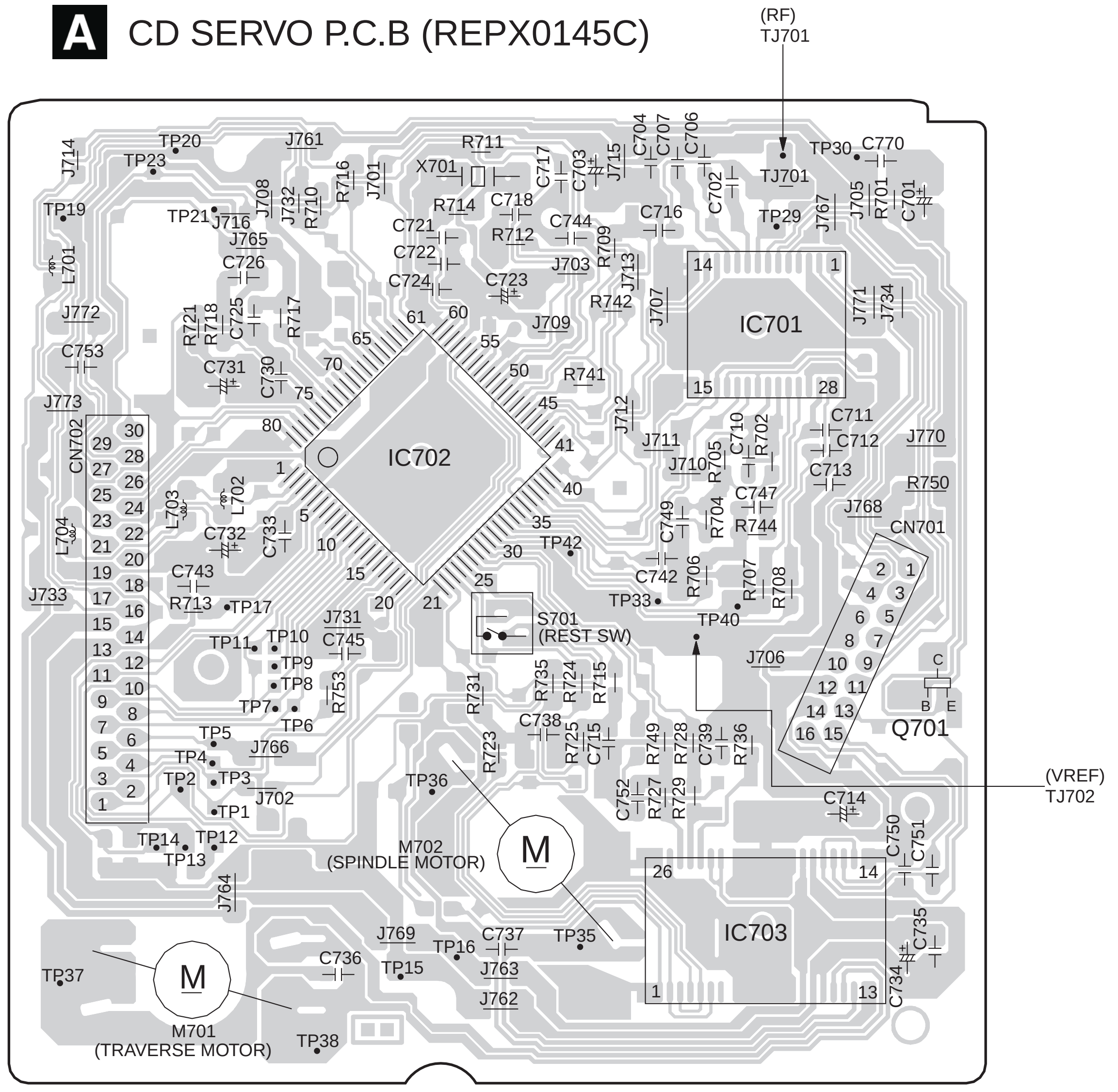
9

# A CD SERVO P.C.B (REPX0145C)


(RF)
TJ701
TJ701
TP30
C770
TP20
J761
R711
J714
TP23
X701
C717
C703
J715
C704
C707
C706
C702
J701
R716
TP19
J708
J732
R710
R714
C718
TP21
J716
J765
C721
R712
C744
R709
C716
TP29
J767
J705
R701
C701
C722
J703
J713
L701
C726
C724
C723
J709
R742
J707
14
1
IC701
15
28
J771
J734
J772
R721
R718
C725
R717
61
60
65
55
C753
C731
C730
70
50
R741
75
45
J773
80
IC702
41
1
40
5
35
10
30
15
20
21
25
CN702
29
30
27
28
25
26
23
24
21
22
19
20
17
18
15
16
13
14
11
12
9
10
7
8
5
6
3
4
1
2
L703
L702
L704
C732
C733
C743
R713
TP17
J733
TP42
J712
J711
J710
R705
C710
R702
C711
C712
J770
C713
R750
C747
J768
R704
R744
CN701
C749
C742
R706
R707
R708
TP33
TP40
S701
(REST SW)
J731
C745
TP11
TP10
TP9
TP8
R753
TP7
TP6
TP5
J766
TP4
TP3
TP2
J702
TP1
TP14
TP12
TP13
R731
R735
R724
R715
J706
C738
R723
R725
C715
R749
R728
C739
R736
TP36
C752
R727
R729
C714
(VREF)
TJ702
2
1
4
3
6
5
8
7
10
9
12
11
14
13
16
15
C
B
E
Q701
C750
C751
M702
(SPINDLE MOTOR)
M
26
14
IC703
1
13
J764
J769
C737
TP16
TP35
C736
TP15
J763
J762
C735
C734
TP37
M
M701
(TRAVERSE MOTOR)
TP38

A B C D E F G

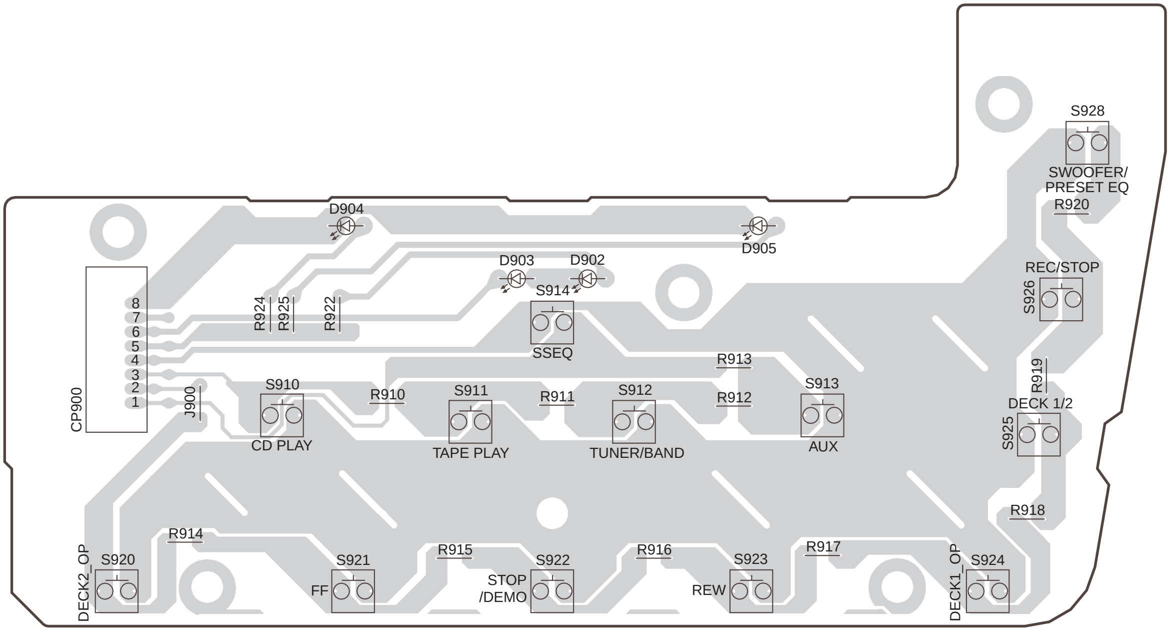
1

# D TACT SWITCH P.C.B. (REPX0303A)

2

3

4



S928
SWOOFER/
PRESET EQ
R920
D904
D905
D903
D902
S914
SSEQ
REC/STOP
S926
8
7
6
5
4
3
2
1
CP900
R924
R925
R922
R913
J900
S910
CD PLAY
R910
S911
TAPE PLAY
R911
S912
TUNER/BAND
R912
S913
AUX
R919
DECK 1/2
S925
R918
R914
R915
R916
R917
DECK2_OP
S920
S921
FF
S922
STOP
/DEMO
S923
REW
DECK1_OP
S924

5

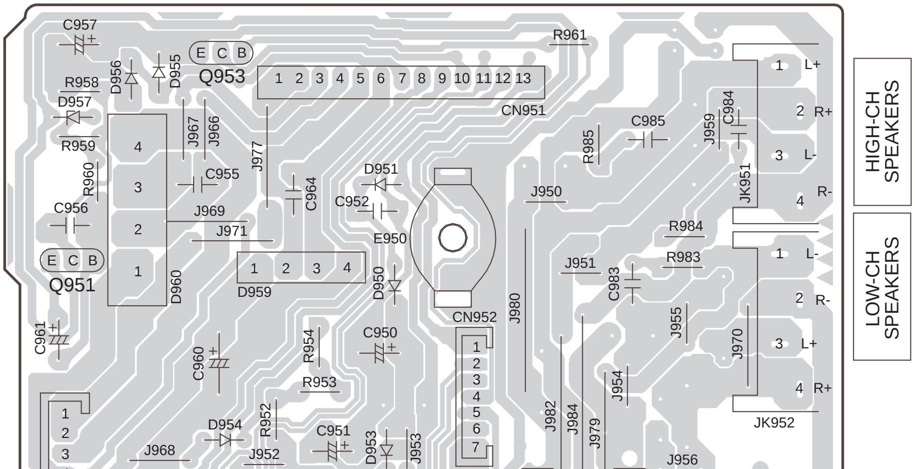
# I SPEAKER TERMINAL P.C.B. (REPX0272C)

6

7

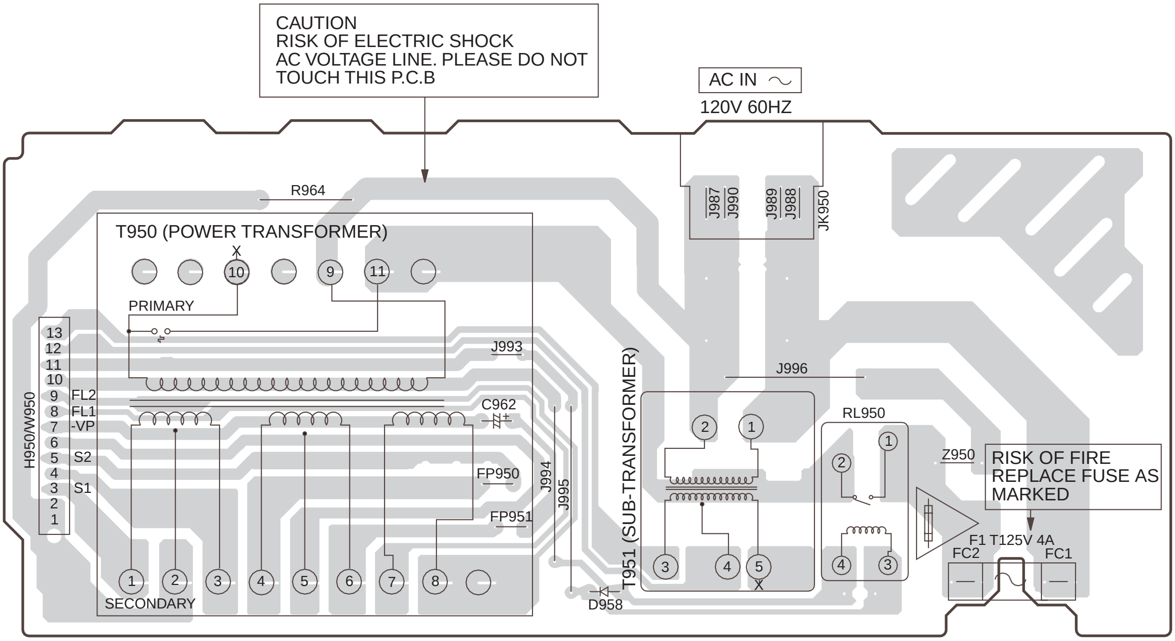
8

9



C957
R961
E C B
Q953
1 2 3 4 5 6 7 8 9 10 11 12 13
CN951
R958
D956
D955
D957
R959
J967
J966
J977
4
3
2
1
C955
R960
C956
J969
J971
E C B
Q951
D960
1 2 3 4
D959
C964
D951
C952
E950
D950
CN952
R985
C985
J959
C984
JK951
J950
R984
R983
J951
C983
J980
J955
J970
1 L+
2 R+
3 L-
R-
4
HIGH-CH
SPEAKERS
1 L-
2 R-
3 L+
4 R+
LOW-CH
SPEAKERS
JK952
C961
C960
R954
C950
R953
1
2
3
4
5
6
7
J982
J984
J979
J954
CN953
D954
R952
J968
C951
D953
J953
J952
J960
J957
J956
H501B/W501B
H502B/W502B
1
2
3
4
5
C954
C953
E
C
B
Q950
J958
R950
R951
D952
C982
R982

# J SUB-TRANSFORMER P.C.B. (REPX0273D...P)
# (REPX0273C...PC)



CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B

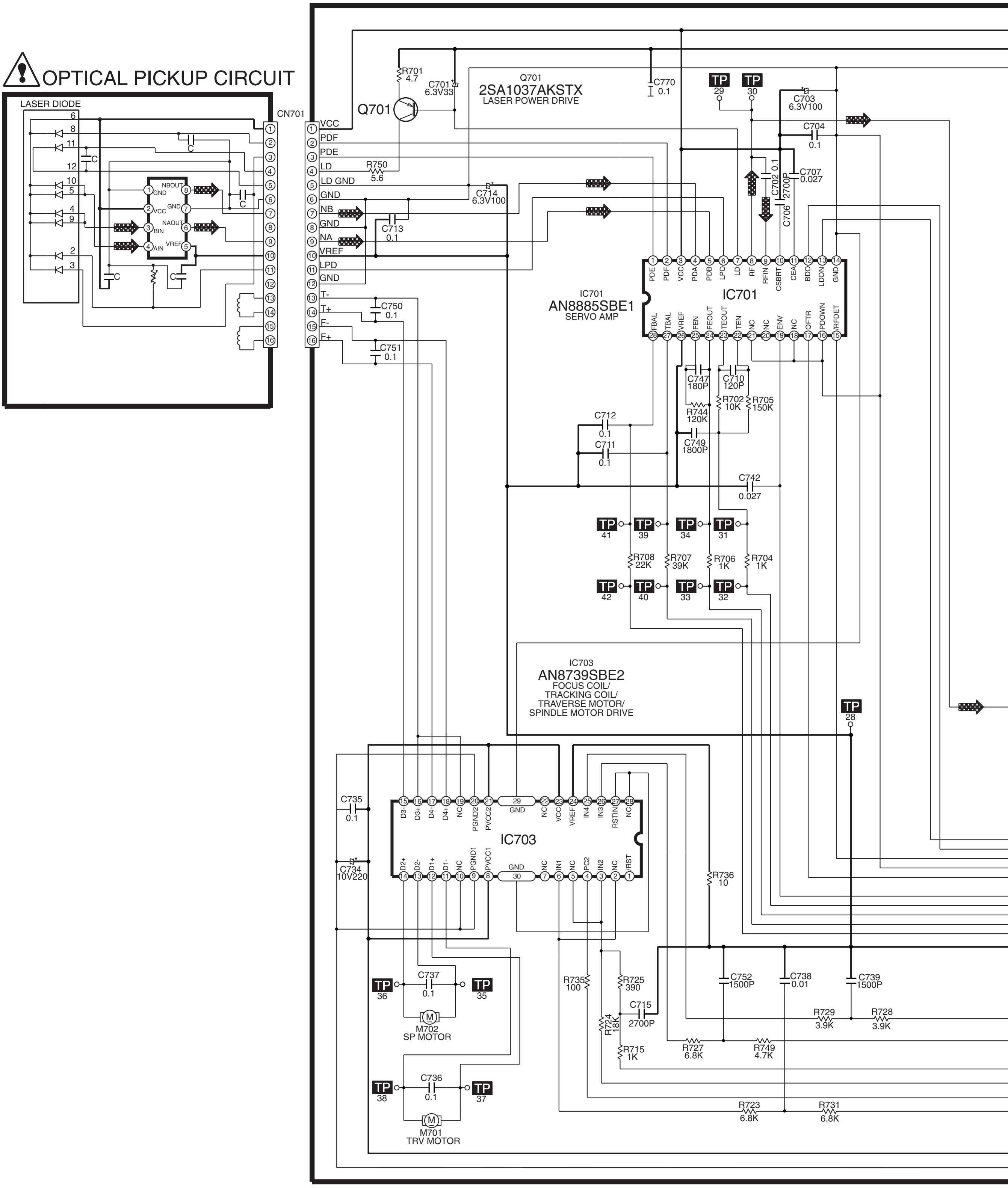
RISK OF FIRE
REPLACE FUSE AS
MARKED

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
AC IN ~
120V 60HZ
R964
T950 (POWER TRANSFORMER)
X
10
9
11
PRIMARY
J987
J990
J989
J988
JK950
J993
J996
13
12
11
10
9 FL2
8 FL1
7 -VP
6
5 S2
4
3 S1
2
1
H950/W950
C962
+
FP950
FP951
J994
J995
T951 (SUB-TRANSFORMER)
RL950
Z950
1
2
3
4
5
X
1
2
3
4
5
6
7
8
SECONDARY
D958
F1 T125V 4A
FC2
FC1

# SCHEMATIC DIAGRAM -1

— : +B SIGNAL LINE ▨ : CD-DA SIGNAL LINE

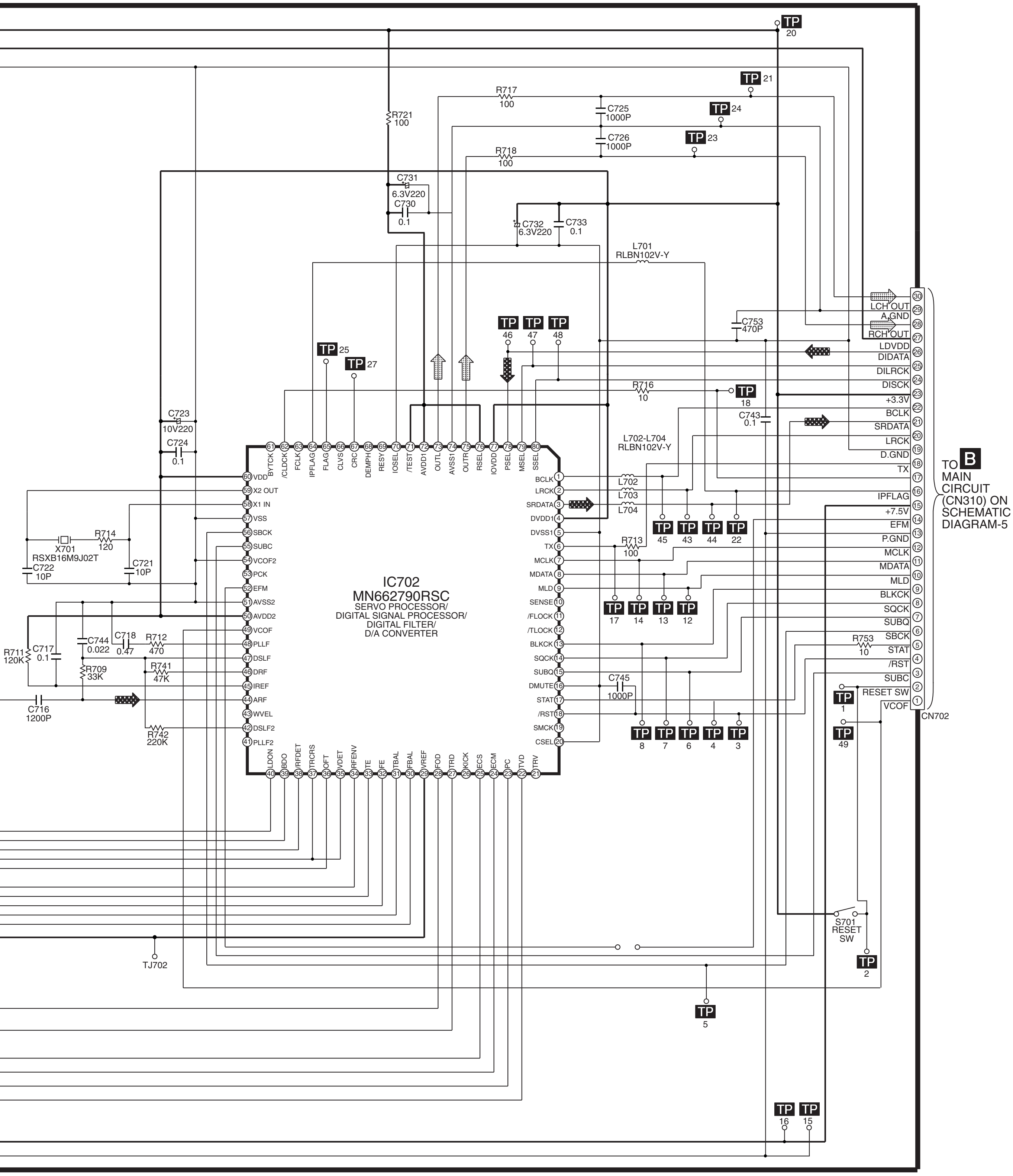
## A CD SERVO CIRCUIT


OPTICAL PICKUP CIRCUIT
LASER DIODE
CN701
VCC
PDF
PDE
LD
LD GND
GND
NB
GND
NA
VREF
LPD
GND
T-
T+
F-
F+
NBOUT
GND
VCC
BIN
AIN
NAOUT
VREF
Q701
R701 4.7
C701 6.3V33
Q701 2SA1037AKSTX LASER POWER DRIVE
R750 5.6
C714 6.3V100
C713 0.1
C750 0.1
C751 0.1
C770 0.1
TP 29
TP 30
C703 6.3V100
C704 0.1
C702 0.1
C706 2700P
C707 0.027
IC701 AN8885SBE1 SERVO AMP
PDE PDF VCC PDA PDB LPD LD RF RFIN CSBRT CEA BDO LDON GND
FBAL TBAL VREF FEN FEOUT TEOUT TEN NC NC ENV NC OFTR PDOWN /RFDET
C747 180P
C710 120P
R744 120K
R702 10K
R705 150K
C749 1800P
C712 0.1
C711 0.1
C742 0.027
TP 41
TP 39
TP 34
TP 31
R708 22K
R707 39K
R706 1K
R704 1K
TP 42
TP 40
TP 33
TP 32
IC703 AN8739SBE2 FOCUS COIL/ TRACKING COIL/ TRAVERSE MOTOR/ SPINDLE MOTOR DRIVE
TP 28
C735 0.1
C734 10V220
D3- D3+ D4- D4+ NC PGND2 PVCC2 GND NC VCC VREF IN4 IN3 RSTIN NC
D2+ D2- D1+ D1- NC PGND1 PVCC1 GND NC IN1 NC PC2 IN2 NC /RST
R736 10
TP 36
C737 0.1
TP 35
M702 SP MOTOR
TP 38
C736 0.1
TP 37
M701 TRV MOTOR
R735 100
R725 390
R724 18K
C715 2700P
R715 1K
C752 1500P
C738 0.01
C739 1500P
R729 3.9K
R728 3.9K
R727 6.8K
R749 4.7K
R723 6.8K
R731 6.8K

# SCHEMATIC DIAGRAM - 2

— : +B SIGNAL LINE ➡ : CD-DA SIGNAL LINE ⇨ : CD SIGNAL LINE

## A CD SERVO CIRCUIT

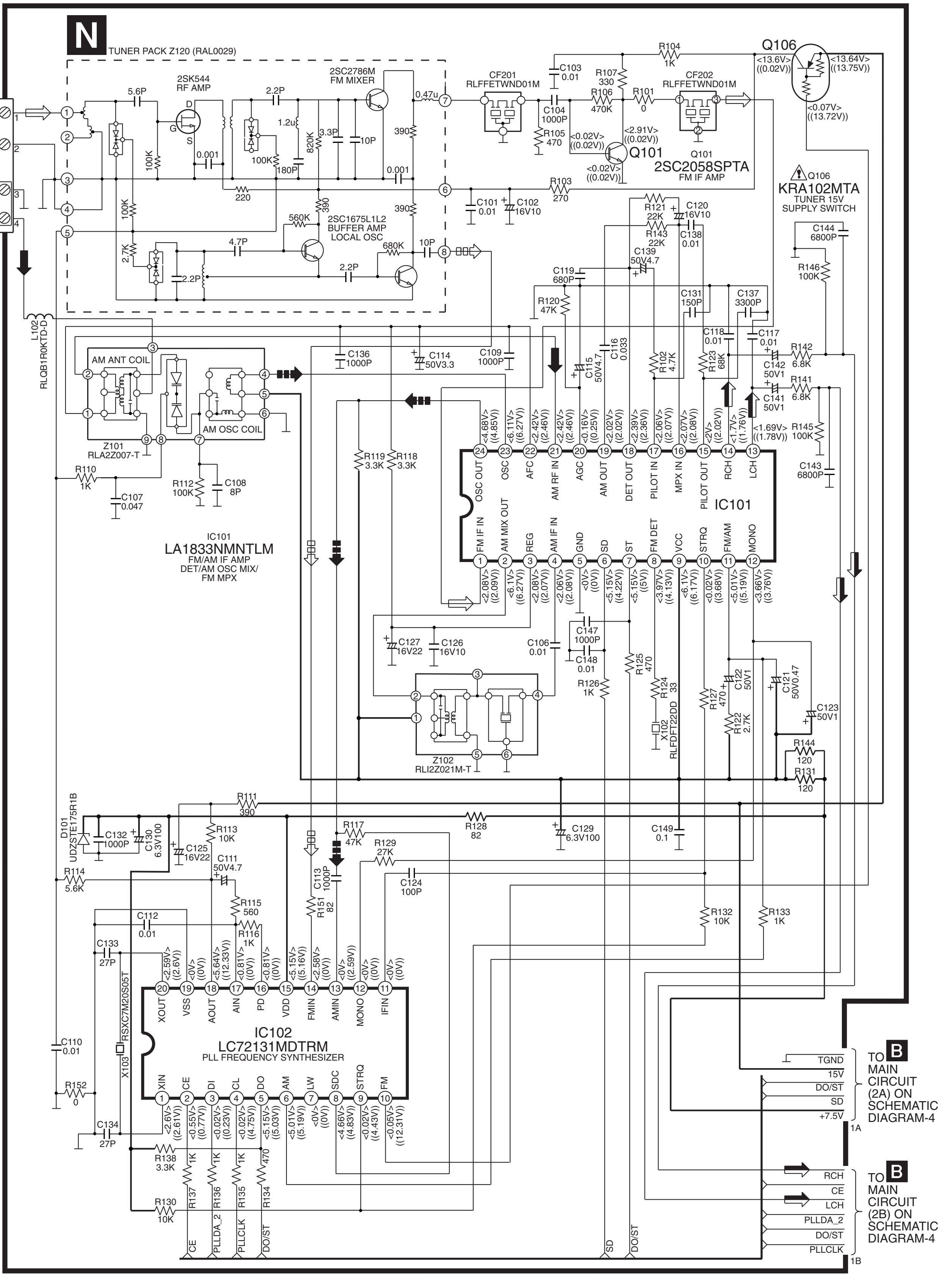


TP 20
TP 21
TP 24
TP 23
R717 100
C725 1000P
C726 1000P
R718 100
R721 100
C731 6.3V220
C730 0.1
C732 6.3V220
C733 0.1
L701 RLBN102V-Y
C753 470P
TP 46
TP 47
TP 48
TP 25
TP 27
R716 10
TP 18
C743 0.1
L702-L704 RLBN102V-Y
C723 10V220
C724 0.1
IC702
MN662790RSC
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER/
D/A CONVERTER
61 BYTCK
62 /CLDCK
63 FCLK
64 IPFLAG
65 FLAG
66 CLVS
67 CRC
68 DEMPH
69 RESY
70 IOSEL
71 /TEST
72 AVDD1
73 OUTL
74 AVSS1
75 OUTR
76 RSEL
77 IOVDD
78 PSEL
79 MSEL
80 SSEL
60 VDD
59 X2 OUT
58 X1 IN
57 VSS
56 SBCK
55 SUBC
54 VCOF2
53 PCK
52 EFM
51 AVSS2
50 AVDD2
49 VCOF
48 PLLF
47 DSLF
46 DRF
45 IREF
44 ARF
43 WVEL
42 DSLF2
41 PLLF2
BCLK 1
LRCK 2
SRDATA 3
DVDD1 4
DVSS1 5
TX 6
MCLK 7
MDATA 8
MLD 9
SENSE 10
/FLOCK 11
/TLOCK 12
BLKCK 13
SQCK 14
SUBQ 15
DMUTE 16
STAT 17
/RST 18
SMCK 19
CSEL 20
40 LDON
39 BDO
38 /RFDET
37 TRCRS
36 OFT
35 VDET
34 RFENV
33 TE
32 FE
31 TBAL
30 FBAL
29 VREF
28 FOD
27 TRD
26 KICK
25 ECS
24 ECM
23 PC
22 TVD
21 TRV
L702
L703
L704
TP 45
TP 43
TP 44
TP 22
R713 100
TP 17
TP 14
TP 13
TP 12
C745 1000P
TP 8
TP 7
TP 6
TP 4
TP 3
R753 10
TP 1
TP 49
X701
RSXB16M9J02T
R714 120
C722 10P
C721 10P
R711 120K
C717 0.1
C744 0.022
C718 0.47
R712 470
R709 33K
R741 47K
C716 1200P
R742 220K
TJ702
S701 RESET SW
TP 2
TP 5
TP 16
TP 15
30 LCH OUT
29 A.GND
28 RCH OUT
27 LDVDD
26 DIDATA
25 DILRCK
24 DISCK
23 +3.3V
22 BCLK
21 SRDATA
20 LRCK
19 D.GND
18 TX
17 IPFLAG
16 +7.5V
15 EFM
14 P.GND
13 MCLK
12 MDATA
11 MLD
10 BLKCK
9 SQCK
8 SUBQ
7 SBCK
6 STAT
5 /RST
4 SUBC
3 RESET SW
2 VCOF
1
CN702
TO B MAIN CIRCUIT (CN310) ON SCHEMATIC DIAGRAM-5

# SCHEMATIC DIAGRAM - 3

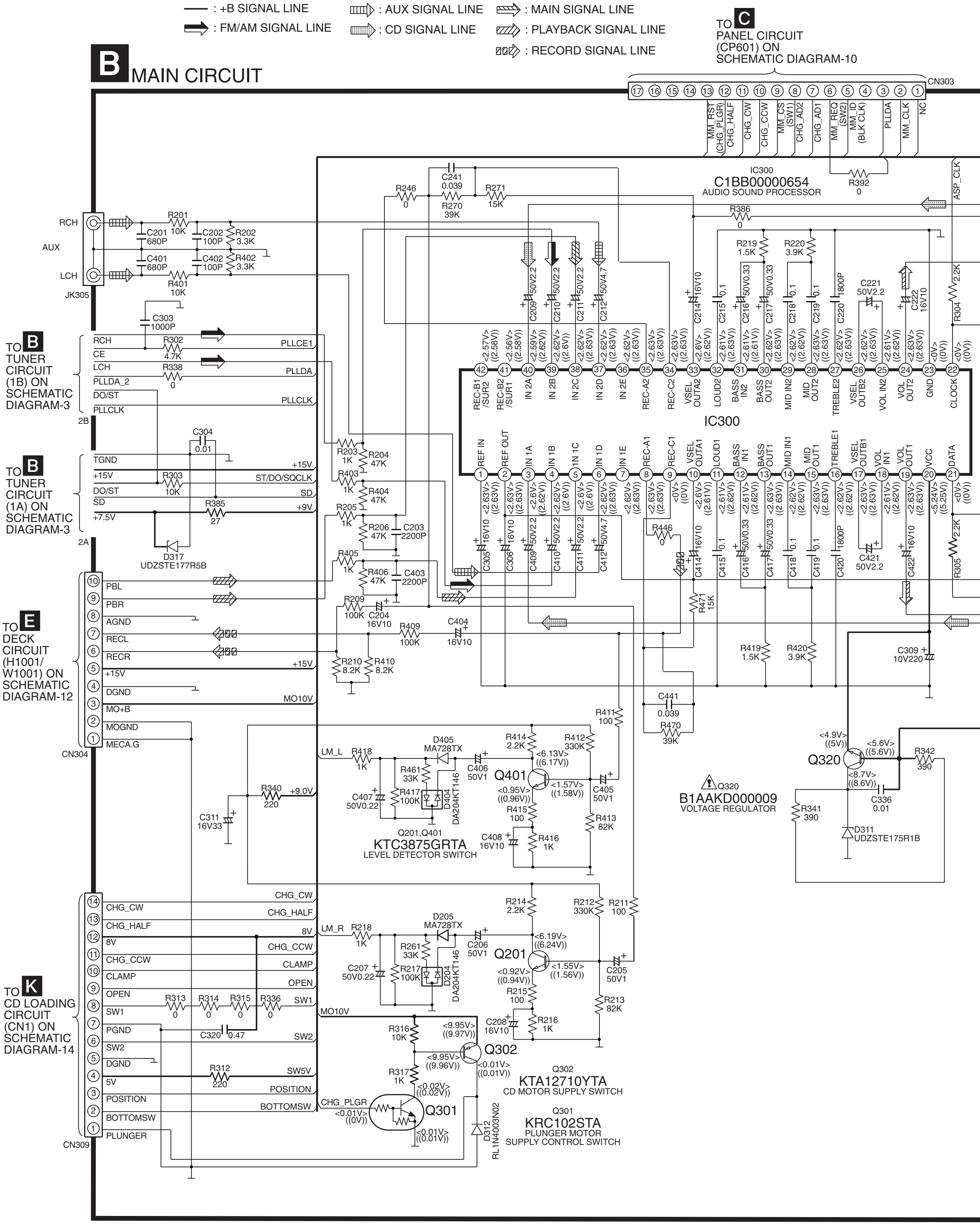
— : +B SIGNAL LINE
⇨ : FM SIGNAL LINE
➡ : AM SIGNAL LINE
➡ : FM/AM SIGNAL LINE
▯▯▯⇨ : FM OSC SIGNAL LINE
■■■➡ : AM OSC SIGNAL LINE

## B TUNER/MAIN CIRCUIT


N
TUNER PACK Z120 (RAL0029)
FM EXT ANT
75 OHM
GND
AM LOOP ANT
AM EXT ANT
JK101
2SK544 RF AMP
2SC2786M FM MIXER
5.6P
2.2P
1.2u
0.47u
3.3P
10P
820K
390
100K
180P
0.001
220
560K
2SC1675L1L2 BUFFER AMP LOCAL OSC
680K
4.7P
2.7K
2.2P
CF201 RLFFETWND01M
CF202 RLFFETWND01M
C103 0.01
R104 1K
R107 330
R106 470K
R101 0
C104 1000P
R105 470
Q101 2SC2058SPTA FM IF AMP
R103 270
C101 0.01
C102 16V10
Q106
KRA102MTA TUNER 15V SUPPLY SWITCH
<13.6V> ((0.02V))
<13.64V> ((13.75V))
<0.07V> ((13.72V))
<2.91V> ((0.02V))
<0.02V> ((0.02V))
R121 22K
R143 22K
C120 16V10
C138 0.01
C139 50V4.7
C119 680P
R120 47K
C131 150P
C137 3300P
C144 6800P
R146 100K
C118 0.01
C117 0.01
R142 6.8K
C142 50V1
R141 6.8K
C141 50V1
R145 100K
C143 6800P
C115 50V4.7
C116 0.033
R102 4.7K
R123 68K
L102 RLQB1R0KTD-D
AM ANT COIL
AM OSC COIL
Z101 RLA2Z007-T
C136 1000P
C114 50V3.3
C109 1000P
R110 1K
C107 0.047
R112 100K
C108 8P
R119 3.3K
R118 3.3K
IC101 LA1833NMNTLM FM/AM IF AMP DET/AM OSC MIX/ FM MPX
OSC OUT, OSC, AFC, AM RF IN, AGC, AM OUT, DET OUT, PILOT IN, MPX IN, PILOT OUT, RCH, LCH
FM IF IN, AM MIX OUT, REG, AM IF IN, GND, SD, ST, FM DET, VCC, STRQ, FM/AM, MONO
<4.68V> ((4.85V)) <6.11V> ((6.27V)) <2.42V> ((2.46V)) <2.42V> ((2.46V)) <0.16V> ((0.25V)) <2.02V> ((2.02V)) <2.39V> ((2.36V)) <2.06V> ((2.07V)) <2.07V> ((2.08V)) <2V> ((2.02V)) <1.7V> ((1.76V)) <1.69V> ((1.78V))
<2.08V> ((2.09V)) <6.1V> ((6.27V)) <2.08V> ((2.07V)) <2.06V> ((2.08V)) <0V> ((0V)) <5.15V> ((4.22V)) <5.15V> ((5V)) <3.97V> ((4.13V)) <6.1V> ((6.17V)) <0.02V> ((3.68V)) <5.01V> ((5.19V)) <3.66V> ((3.76V))
C127 16V22
C126 16V10
C106 0.01
C147 1000P
C148 0.01
R125 470
R126 1K
R124 33
X102 RLFDFT22DD
R127 470
C122 50V1
R122 2.7K
C121 50V0.47
C123 50V1
R144 120
R131 120
Z102 RLI2Z021M-T
D101 UDZSTE175R1B
C132 1000P
C130 6.3V100
R111 390
C125 16V22
R113 10K
R128 82
C129 6.3V100
C149 0.1
R117 47K
R129 27K
C111 50V4.7
R114 5.6K
R115 560
R116 1K
C113 1000P
R151 82
C124 100P
R132 10K
R133 1K
C112 0.01
C133 27P
X103 RSXC7M20S05T
C110 0.01
R152 0
C134 27P
IC102 LC72131MDTRM PLL FREQUENCY SYNTHESIZER
XOUT, VSS, AOUT, AIN, PD, VDD, FMIN, AMIN, MONO, IFIN
XIN, CE, DI, CL, DO, AM, LW, SDC, STRQ, FM
<2.59V> ((2.6V)) <0V> ((0V)) <5.64V> ((12.33V)) <0.81V> ((0V)) <0.81V> ((0V)) <5.15V> ((5.16V)) <2.58V> ((0V)) <0V> ((2.59V)) <0V> ((0V)) <0V> ((0V))
<2.6V> ((2.61V)) <0.55V> ((0.77V)) <0.02V> ((0.23V)) <0.02V> ((4.75V)) <5.15V> ((5.03V)) <5.01V> ((5.19V)) <0V> ((0V)) <4.66V> ((4.83V)) <0.02V> ((4.43V)) <0.05V> ((12.31V))
R138 3.3K
R130 10K
R137 1K
R136 1K
R135 1K
R134 470
CE, PLLDA_2, PLLCLK, DO/ST, SD, DO/ST
TGND, 15V, DO/ST, SD, +7.5V
1A
TO B MAIN CIRCUIT (2A) ON SCHEMATIC DIAGRAM-4
RCH, CE, LCH, PLLDA_2, DO/ST, PLLCLK
1B
TO B MAIN CIRCUIT (2B) ON SCHEMATIC DIAGRAM-4

# SCHEMATIC DIAGRAM - 4

— : +B SIGNAL LINE
➡ : FM/AM SIGNAL LINE
▥⇨ : AUX SIGNAL LINE
▨⇨ : CD SIGNAL LINE
⇨ : MAIN SIGNAL LINE
▨⇨ : PLAYBACK SIGNAL LINE
▨⇨ : RECORD SIGNAL LINE

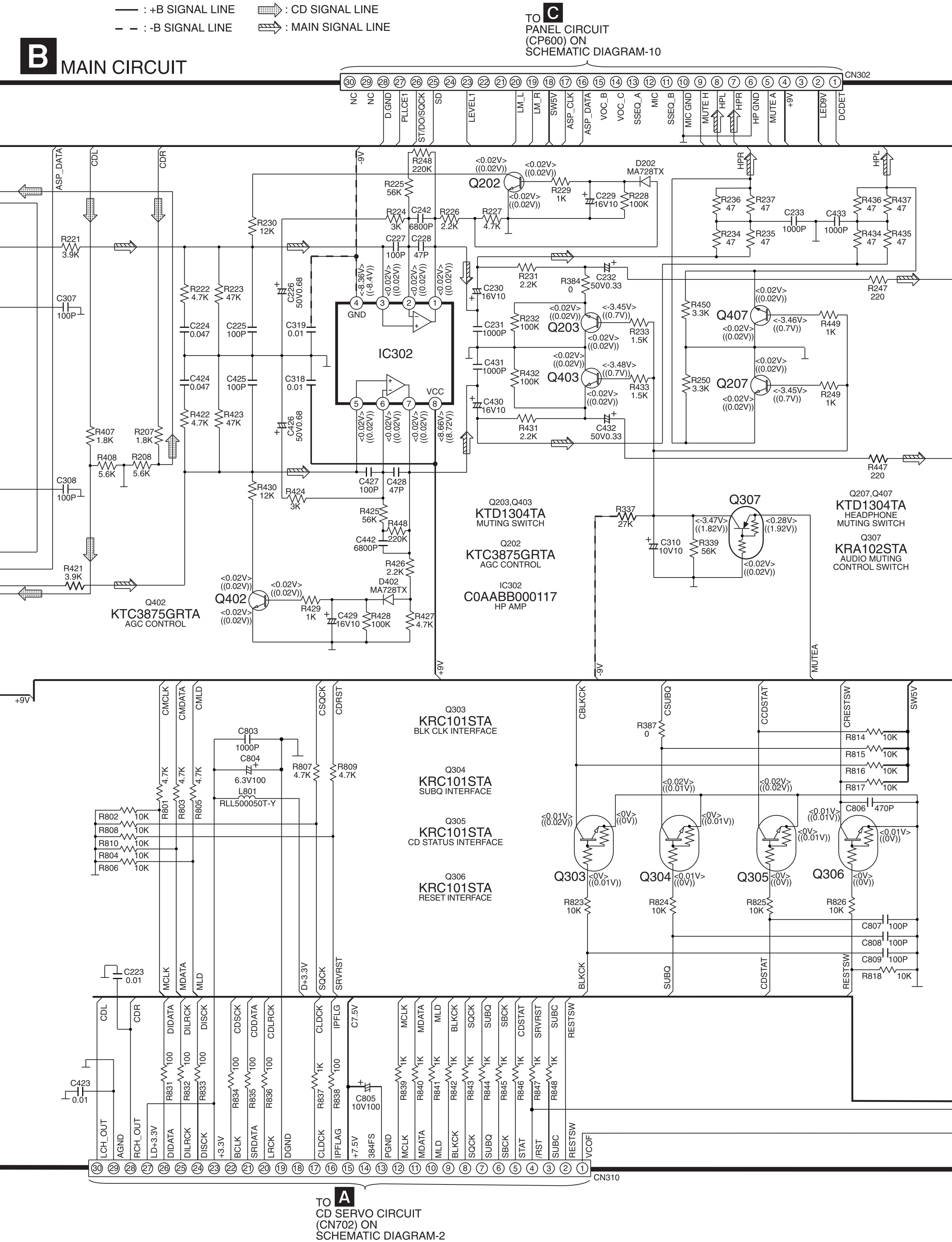


B MAIN CIRCUIT
TO C PANEL CIRCUIT (CP601) ON SCHEMATIC DIAGRAM-10
CN303
MM_RST (CHG_PLGR)
CHG_HALF
CHG_CW
CHG_CCW
MM_CS (SW1)
CHG_AD2
CHG_AD1
MM_REQ (SW2)
MM_ID (BLK CLK)
PLLDA
MM_CLK
NC
ASP_CLK
IC300
C1BB00000654
AUDIO SOUND PROCESSOR
R392 0
R386 0
R219 1.5K
R220 3.9K
C221 50V2.2
C222 16V10
R304 2.2K
C241 0.039
R246 0
R270 39K
R271 15K
RCH
LCH
AUX
JK305
R201 10K
C201 680P
C202 100P
R202 3.3K
C401 680P
C402 100P
R402 3.3K
R401 10K
C303 1000P
TO B TUNER CIRCUIT (1B) ON SCHEMATIC DIAGRAM-3
RCH
CE
LCH
PLLDA_2
DO/ST
PLLCLK
R302 4.7K
R338 0
PLLCE1
PLLDA
PLLCLK
2B
C304 0.01
TO B TUNER CIRCUIT (1A) ON SCHEMATIC DIAGRAM-3
TGND
+15V
DO/ST
SD
+7.5V
R303 10K
R385 27
+15V
ST/DO/SQCLK
SD
+9V
2A
D317 UDZSTE177R5B
R203 1K
R204 47K
R403 1K
R404 47K
R205 1K
R206 47K
C203 2200P
R405 1K
R406 47K
C403 2200P
C209 50V2.2
C210 50V2.2
C211 50V2.2
C212 50V4.7
C214 16V10
C215 0.1
C216 50V0.33
C217 50V0.33
C218 0.1
C219 0.1
C220 1800P
REC-B1 /SUR2
REC-B2 /SUR1
IN 2A
IN 2B
IN 2C
IN 2D
IN 2E
REC-A2
REC-C2
VSEL OUTA2
LOUD2
BASS IN2
BASS OUT2
MID IN2
MID OUT2
TREBLE2
VSEL OUTB2
VOL IN2
VOL OUT2
GND
CLOCK
IC300
REF IN
REF OUT
IN 1A
IN 1B
IN 1C
IN 1D
IN 1E
REC-A1
REC-C1
VSEL OUTA1
LOUD1
BASS IN1
BASS OUT1
MID IN1
MID OUT1
TREBLE1
VSEL OUTB1
VOL IN1
VOL OUT1
VCC
DATA
<2.57V> ((2.58V))
<2.56V> ((2.58V))
<2.59V> ((2.62V))
<2.62V> ((2.6V))
<2.62V> ((2.63V))
<2.6V> ((2.62V))
<2.61V> ((2.63V))
<0V> ((0V))
<5.24V> ((5.25V))
C305 16V10
C306 16V10
C409 50V2.2
C410 50V2.2
C411 50V2.2
C412 50V4.7
R446 0
C414 16V10
C415 0.1
C416 50V0.33
C417 50V0.33
C418 0.1
C419 0.1
C420 1800P
C421 50V2.2
C422 16V10
R305 2.2K
R471 15K
R419 1.5K
R420 3.9K
C309 10V220
TO E DECK CIRCUIT (H1001/ W1001) ON SCHEMATIC DIAGRAM-12
PBL
PBR
AGND
RECL
RECR
+15V
DGND
MO+B
MOGND
MECA.G
CN304
R209 100K
C204 16V10
R409 100K
C404 16V10
R210 8.2K
R410 8.2K
+15V
MO10V
C441 0.039
R411 100
R470 39K
LM_L
R418 1K
D405 MA728TX
R461 33K
R417 100K
D404 DA204KT146
C407 50V0.22
C406 50V1
R414 2.2K
R412 330K
<6.13V> ((6.17V))
Q401
<0.95V> ((0.96V))
<1.57V> ((1.58V))
C405 50V1
R415 100
R413 82K
C408 16V10
R416 1K
Q201,Q401
KTC3875GRTA
LEVEL DETECTOR SWITCH
R340 220
+9.0V
C311 16V33
Q320
<4.9V> ((5V))
<5.6V> ((5.6V))
<8.7V> ((8.6V))
R342 390
R341 390
C336 0.01
D311 UDZSTE175R1B
⚠Q320
B1AAKD000009
VOLTAGE REGULATOR
TO K CD LOADING CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-14
CHG_CW
CHG_HALF
8V
CHG_CCW
CLAMP
OPEN
SW1
PGND
SW2
DGND
5V
POSITION
BOTTOMSW
PLUNGER
CN309
R313 0
R314 0
R315 0
R336 0
C320 0.47
R312 220
SW5V
MO10V
LM_R
R218 1K
D205 MA728TX
R261 33K
R217 100K
D204 DA204KT146
C207 50V0.22
C206 50V1
R214 2.2K
R212 330K
R211 100
<6.19V> ((6.24V))
Q201
<0.92V> ((0.94V))
<1.55V> ((1.56V))
C205 50V1
R215 100
R213 82K
C208 16V10
R216 1K
R316 10K
<9.95V> ((9.97V))
Q302
<9.95V> ((9.96V))
<0.01V> ((0.01V))
R317 1K
<0.02V> ((0.02V))
CHG_PLGR
<0.01V> ((0V))
Q301
<0.01V> ((0.01V))
D312 RL1N4003N02
Q302
KTA12710YTA
CD MOTOR SUPPLY SWITCH
Q301
KRC102STA
PLUNGER MOTOR SUPPLY CONTROL SWITCH

# SCHEMATIC DIAGRAM - 5

—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
▨⇨ : CD SIGNAL LINE
⇨ : MAIN SIGNAL LINE

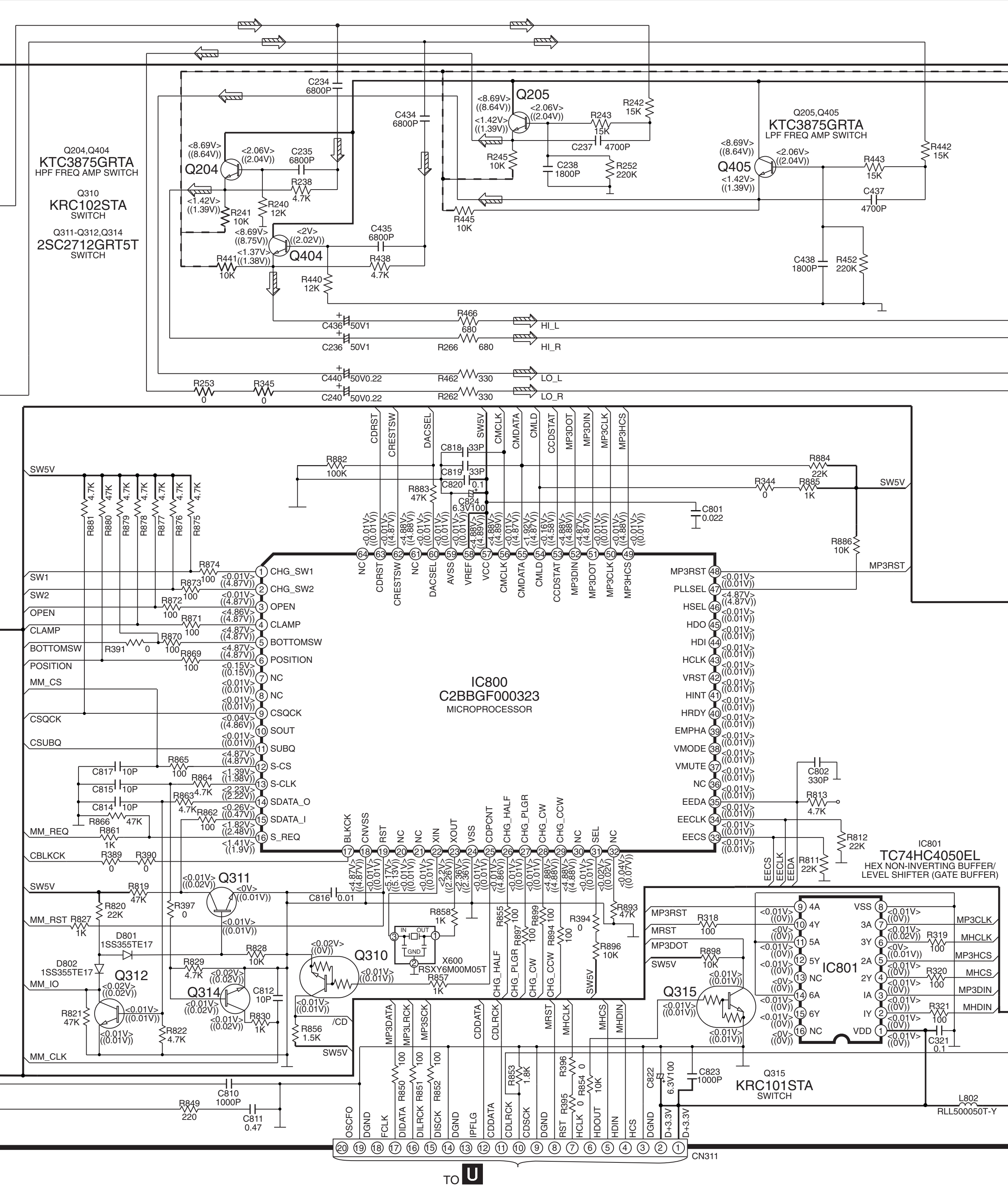
## B MAIN CIRCUIT


TO C
PANEL CIRCUIT
(CP600) ON
SCHEMATIC DIAGRAM-10
CN302
NC
NC
D.GND
PLLCE1
ST/DO/SQCK
SD
LEVEL1
LM_L
LM_R
SW5V
ASP_CLK
ASP_DATA
VOC_B
VOC_C
SSEQ_A
MIC
SSEQ_B
MIC GND
MUTE H
HPL
HPR
HP GND
MUTE A
+9V
LED9V
DCDET
ASP_DATA
CDL
CDR
-9V
R248 220K
R225 56K
Q202
R229 1K
D202 MA728TX
C229 16V10
R228 100K
R224 3K
C242 6800P
R226 2.2K
R227 4.7K
R230 12K
R221 3.9K
C227 100P
C228 47P
C226 50V0.68
R222 4.7K
R223 47K
C307 100P
C224 0.047
C225 100P
C319 0.01
IC302
GND
VCC
C424 0.047
C425 100P
C318 0.01
R422 4.7K
R423 47K
C426 50V0.68
R407 1.8K
R207 1.8K
R408 5.6K
R208 5.6K
C308 100P
R430 12K
R424 3K
C427 100P
C428 47P
R425 56K
R448 220K
C442 6800P
R426 2.2K
D402 MA728TX
R421 3.9K
Q402
R429 1K
C429 16V10
R428 100K
R427 4.7K
Q402 KTC3875GRTA AGC CONTROL
C230 16V10
R231 2.2K
R384 0
C232 50V0.33
C231 1000P
R232 100K
Q203
R233 1.5K
C431 1000P
R432 100K
Q403
R433 1.5K
C430 16V10
R431 2.2K
C432 50V0.33
HPR
HPL
R236 47
R237 47
R234 47
R235 47
C233 1000P
C433 1000P
R436 47
R437 47
R434 47
R435 47
R247 220
R450 3.3K
Q407
R449 1K
R250 3.3K
Q207
R249 1K
R447 220
Q203,Q403 KTD1304TA MUTING SWITCH
Q202 KTC3875GRTA AGC CONTROL
IC302 C0AABB000117 HP AMP
Q207,Q407 KTD1304TA HEADPHONE MUTING SWITCH
Q307 KRA102STA AUDIO MUTING CONTROL SWITCH
R337 27K
C310 10V10
R339 56K
Q307
MUTEA
+9V
-9V
+9V
CMCLK
CMDATA
CMLD
CSQCK
CDRST
C803 1000P
C804 6.3V100
L801 RLL500050T-Y
R807 4.7K
R809 4.7K
R801 4.7K
R803 4.7K
R805 4.7K
R802 10K
R808 10K
R810 10K
R804 10K
R806 10K
Q303 KRC101STA BLK CLK INTERFACE
Q304 KRC101STA SUBQ INTERFACE
Q305 KRC101STA CD STATUS INTERFACE
Q306 KRC101STA RESET INTERFACE
CBLKCK
CSUBQ
CCDSTAT
CRESTSW
SW5V
R387 0
R814 10K
R815 10K
R816 10K
R817 10K
C806 470P
Q303
Q304
Q305
Q306
R823 10K
R824 10K
R825 10K
R826 10K
C807 100P
C808 100P
C809 100P
R818 10K
C223 0.01
MCLK
MDATA
MLD
D+3.3V
SQCK
SRVRST
BLKCK
SUBQ
CDSTAT
RESTSW
CDL
CDR
DIDATA
DILRCK
DISCK
CDSCK
CDDATA
CDLRCK
CLDCK
IPFLG
C7.5V
MCLK
MDATA
MLD
BLKCK
SQCK
SUBQ
SBCK
CDSTAT
SRVRST
SUBC
RESTSW
R831 100
R832 100
R833 100
R834 100
R835 100
R836 100
R837 1K
R838 100
C805 10V100
R839 1K
R840 1K
R841 1K
R842 1K
R843 1K
R844 1K
R845 1K
R846 1K
R847 1K
R848 1K
C423 0.01
LCH_OUT
AGND
RCH_OUT
LD+3.3V
DIDATA
DILRCK
DISCK
+3.3V
BCLK
SRDATA
LRCK
DGND
CLDCK
IPFLAG
+7.5V
384FS
PGND
MCLK
MDATA
MLD
BLKCK
SQCK
SUBQ
SBCK
STAT
/RST
SUBC
RESTSW
VCOF
CN310
TO A
CD SERVO CIRCUIT
(CN702) ON
SCHEMATIC DIAGRAM-2

# SCHEMATIC DIAGRAM - 6

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

## B MAIN CIRCUIT



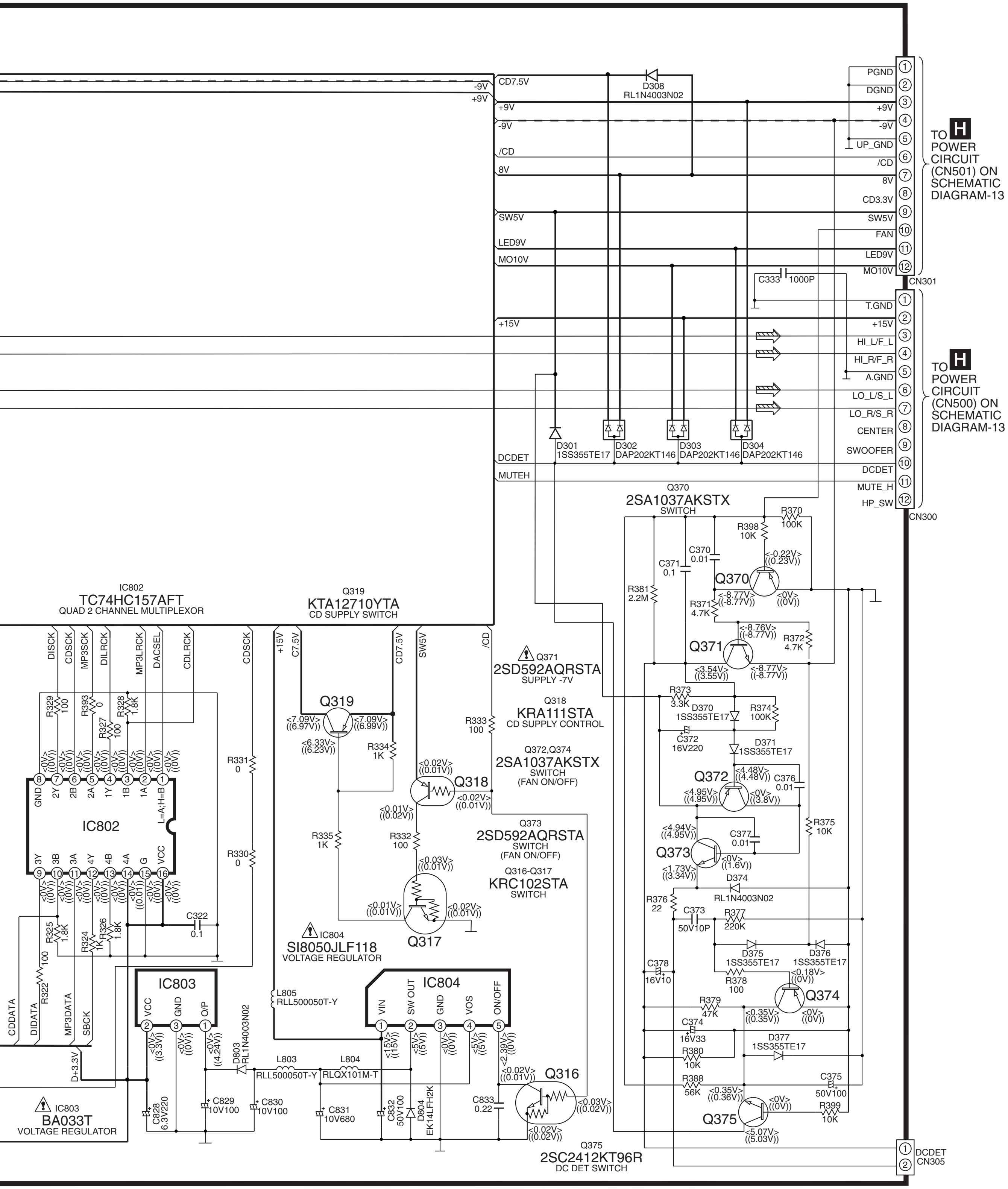
Q204,Q404
KTC3875GRTA
HPF FREQ AMP SWITCH
Q310
KRC102STA
SWITCH
Q311-Q312,Q314
2SC2712GRT5T
SWITCH
Q205,Q405
KTC3875GRTA
LPF FREQ AMP SWITCH
Q204
Q404
Q205
Q405
C234 6800P
C434 6800P
C235 6800P
C435 6800P
R238 4.7K
R240 12K
R241 10K
R441 10K
R438 4.7K
R440 12K
R242 15K
R243 15K
C237 4700P
C238 1800P
R252 220K
R245 10K
R445 10K
R442 15K
R443 15K
C437 4700P
C438 1800P
R452 220K
C436 50V1
C236 50V1
R466 680
R266 680
HI_L
HI_R
C440 50V0.22
C240 50V0.22
R462 330
R262 330
LO_L
LO_R
R253 0
R345 0
IC800
C2BBGF000323
MICROPROCESSOR
SW5V
SW1
SW2
OPEN
CLAMP
BOTTOMSW
POSITION
MM_CS
CSQCK
CSUBQ
MM_REQ
CBLKCK
MM_RST
MM_IO
MM_CLK
MP3RST
R881 R880 R879 R878 R877 R876 R875
R874 100
R873 100
R872 100
R871 100
R870 100
R869 100
R391 0
R865 100
R864 4.7K
R863 4.7K
R862 100
R866 47K
R861 1K
C817 10P
C815 10P
C814 10P
R389 0
R390 0
R882 100K
C818 33P
C819 33P
C820 0.1
C824 6.3V100
R883 47K
C801 0.022
R884 22K
R344 0
R885 1K
R886 10K
C802 330P
R813 4.7K
R812 22K
R811 22K
CHG_SW1
CHG_SW2
OPEN
CLAMP
BOTTOMSW
POSITION
NC
NC
CSQCK
SOUT
SUBQ
S-CS
S-CLK
SDATA_O
SDATA_I
S_REQ
BLKCK
CNVSS
RST
NC
NC
XIN
XOUT
VSS
CDPCNT
CHG_HALF
CHG_PLGR
CHG_CW
CHG_CCW
NC
SEL
NC
MP3RST
PLLSEL
HSEL
HDO
HDI
HCLK
VRST
HINT
HRDY
EMPHA
VMODE
VMUTE
NC
EEDA
EECLK
EECS
NC
CDRST
CRESTSW
NC
DACSEL
AVSS
VREF
VCC
CMCLK
CMDATA
CMLD
CCDSTAT
MP3DIN
MP3DOT
MP3CLK
MP3HCS
Q311
Q312
Q314
Q310
Q315
R819 47K
R820 22K
R827 1K
R397 0
C816 0.01
D801 1SS355TE17
D802 1SS355TE17
R828 10K
R829 4.7K
R821 47K
R822 4.7K
C812 10P
R830 1K
R856 1.5K
/CD
R858 1K
R857 1K
X600
RSXY6M00M05T
IN OUT GND
R855 100
R897 100
R899 100
R894 100
R394 0
R896 10K
R893 47K
IC801
TC74HC4050EL
HEX NON-INVERTING BUFFER/
LEVEL SHIFTER (GATE BUFFER)
MP3RST
MRST
MP3DOT
SW5V
R318 100
R898 10K
4A 4Y 5A 5Y NC 6A 6Y NC
VSS 3A 3Y 2A 2Y IA IY VDD
MP3CLK
MHCLK
MP3HCS
MHCS
MP3DIN
MHDIN
R319 100
R320 100
R321 100
C321 0.1
EECS EECLK EEDA
C810 1000P
R849 220
C811 0.47
R850 100
R851 100
R852 100
R853 1.8K
R396 0
R854 10K
R395 0
C822 6.3V100
C823 1000P
Q315
KRC101STA
SWITCH
L802
RLL500050T-Y
OSCFO DGND FCLK DIDATA DILRCK DISCK DGND IPFLG CDDATA CDLRCK CDSCK DGND RST HCLK HDOUT HDIN HCS DGND D+3.3V D+3.3V
MP3DATA MP3LRCK MP3SCK CDDATA CDLRCK MRST MHCLK MHCS MHDIN
CN311

TO U
MP3 MODULE CIRCUIT (CN1000)
ON SCHEMATIC DIAGRAM-16

# SCHEMATIC DIAGRAM - 7

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

## B MAIN CIRCUIT

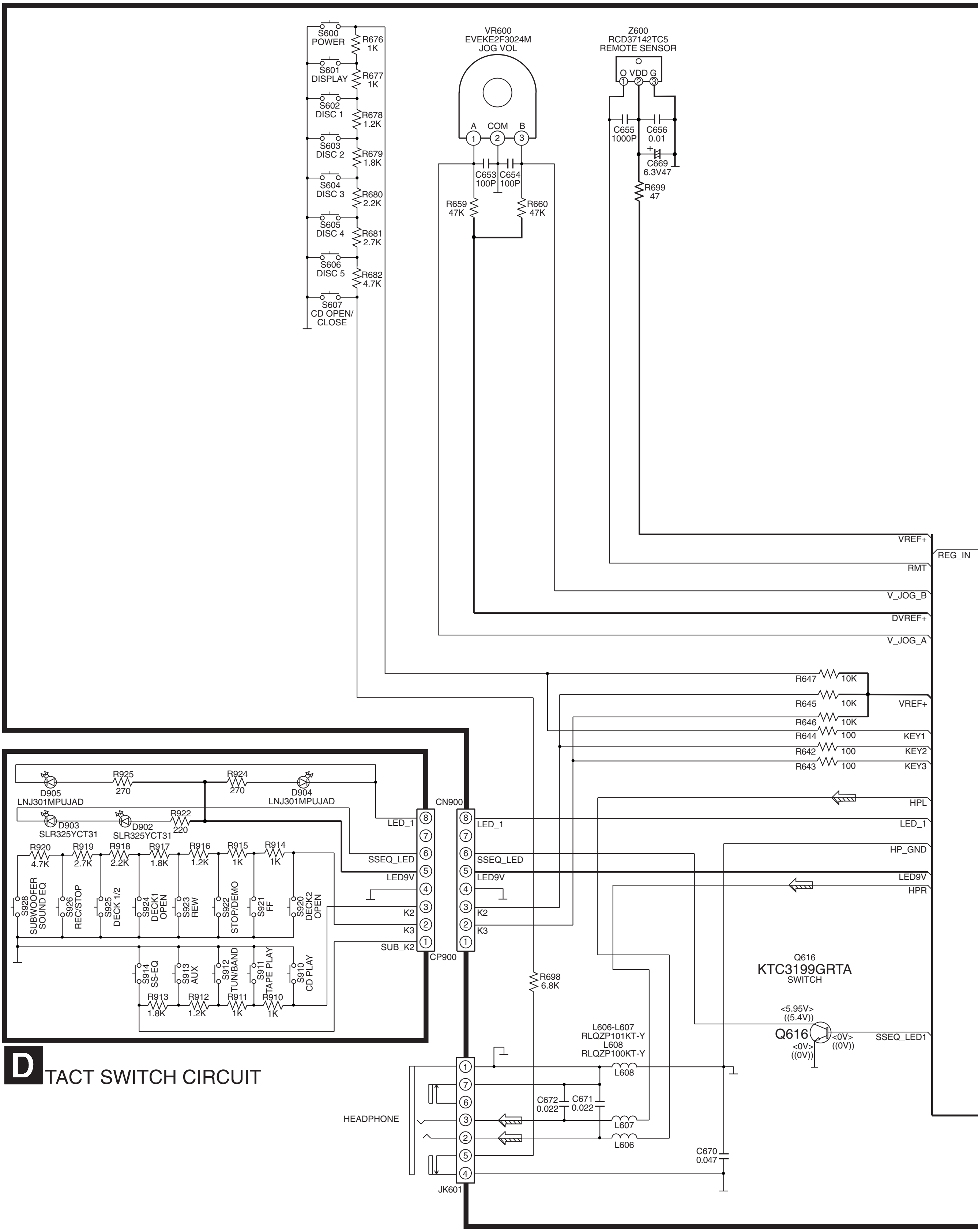


-9V
+9V
CD7.5V
+9V
-9V
/CD
8V
SW5V
LED9V
MO10V
+15V
DCDET
MUTEH
D308
RL1N4003N02
PGND
DGND
+9V
-9V
UP_GND
/CD
8V
CD3.3V
SW5V
FAN
LED9V
MO10V
CN301
TO H POWER CIRCUIT (CN501) ON SCHEMATIC DIAGRAM-13
C333 1000P
T.GND
+15V
HI_L/F_L
HI_R/F_R
A.GND
LO_L/S_L
LO_R/S_R
CENTER
SWOOFER
DCDET
MUTE_H
HP_SW
CN300
TO H POWER CIRCUIT (CN500) ON SCHEMATIC DIAGRAM-13
D301 1SS355TE17
D302 DAP202KT146
D303 DAP202KT146
D304 DAP202KT146
Q370
2SA1037AKSTX
SWITCH
R370 100K
R398 10K
C370 0.01
C371 0.1
<-0.22V> ((0.23V))
Q370
R381 2.2M
<-8.77V> ((-8.77V))
<0V> ((0V))
R371 4.7K
<-8.76V> ((-8.77V))
R372 4.7K
Q371
<3.54V> ((3.55V))
<-8.77V> ((-8.77V))
R373 3.3K
D370 1SS355TE17
R374 100K
C372 16V220
D371 1SS355TE17
Q372
<4.48V> ((4.48V))
C376 0.01
<4.95V> ((4.95V))
<0V> ((3.8V))
R375 10K
<4.94V> ((4.95V))
C377 0.01
Q373
<0V> ((1.6V))
<1.73V> ((3.34V))
D374
RL1N4003N02
R376 22
C373 50V10P
R377 220K
D375 1SS355TE17
D376 1SS355TE17
C378 16V10
R378 100
<0.18V> ((0V))
Q374
R379 47K
<0.35V> ((0.35V))
<0V> ((0V))
C374 16V33
D377 1SS355TE17
R380 10K
R388 56K
<0.35V> ((0.36V))
<0V> ((0V))
C375 50V100
R399 10K
Q375
<5.07V> ((5.03V))
DCDET
CN305
Q375
2SC2412KT96R
DC DET SWITCH
IC802
TC74HC157AFT
QUAD 2 CHANNEL MULTIPLEXOR
Q319
KTA12710YTA
CD SUPPLY SWITCH
DISCK
CDSCK
MP3SCK
DILRCK
MP3LRCK
DACSEL
CDLRCK
CDSCK
+15V
C7.5V
CD7.5V
SW5V
/CD
R329 100
R393 0
R327 100
R328 1.8K
<0V> ((0V))
GND 2Y 2B 2A 1Y 1B 1A L=A;H=B
IC802
3Y 3B 3A 4Y 4B 4A G VCC
R331 0
R330 0
C322 0.1
R325 1.8K
R324 1K
R326 1.8K
R322 100
<0.01V> ((0.01V))
Q319
<7.09V> ((6.97V))
<7.09V> ((6.99V))
<6.33V> ((6.23V))
R334 1K
<0.02V> ((0.01V))
Q318
<0.02V> ((0.01V))
<0.01V> ((0.02V))
R335 1K
R332 100
<0.03V> ((0.01V))
<0.01V> ((0.01V))
<0.02V> ((0.01V))
Q317
Q371
2SD592AQRSTA
SUPPLY -7V
Q318
KRA111STA
CD SUPPLY CONTROL
R333 100
Q372,Q374
2SA1037AKSTX
SWITCH
(FAN ON/OFF)
Q373
2SD592AQRSTA
SWITCH
(FAN ON/OFF)
Q316-Q317
KRC102STA
SWITCH
IC804
SI8050JLF118
VOLTAGE REGULATOR
CDDATA
DIDATA
MP3DATA
SBCK
D+3.3V
IC803
VCC GND O/P
<0V> ((3.3V))
<0V> ((0V))
<0V> ((4.24V))
D803 RL1N4003N02
L805 RLL500050T-Y
L803 RLL500050T-Y
L804 RLQX101M-T
IC804
VIN SW OUT GND VOS ON/OFF
<15V> ((15V))
<5V> ((5V))
<0V> ((0V))
<5V> ((5V))
<2.39V> ((0V))
C828 6.3V220
C829 10V100
C830 10V100
C831 10V680
C832 50V100
D804 EK14LFH2K
C833 0.22
<0.02V> ((0.01V))
Q316
<0.03V> ((0.02V))
<0.02V> ((0.02V))
IC803
BA033T
VOLTAGE REGULATOR

# SCHEMATIC DIAGRAM - 8

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

## C PANEL CIRCUIT

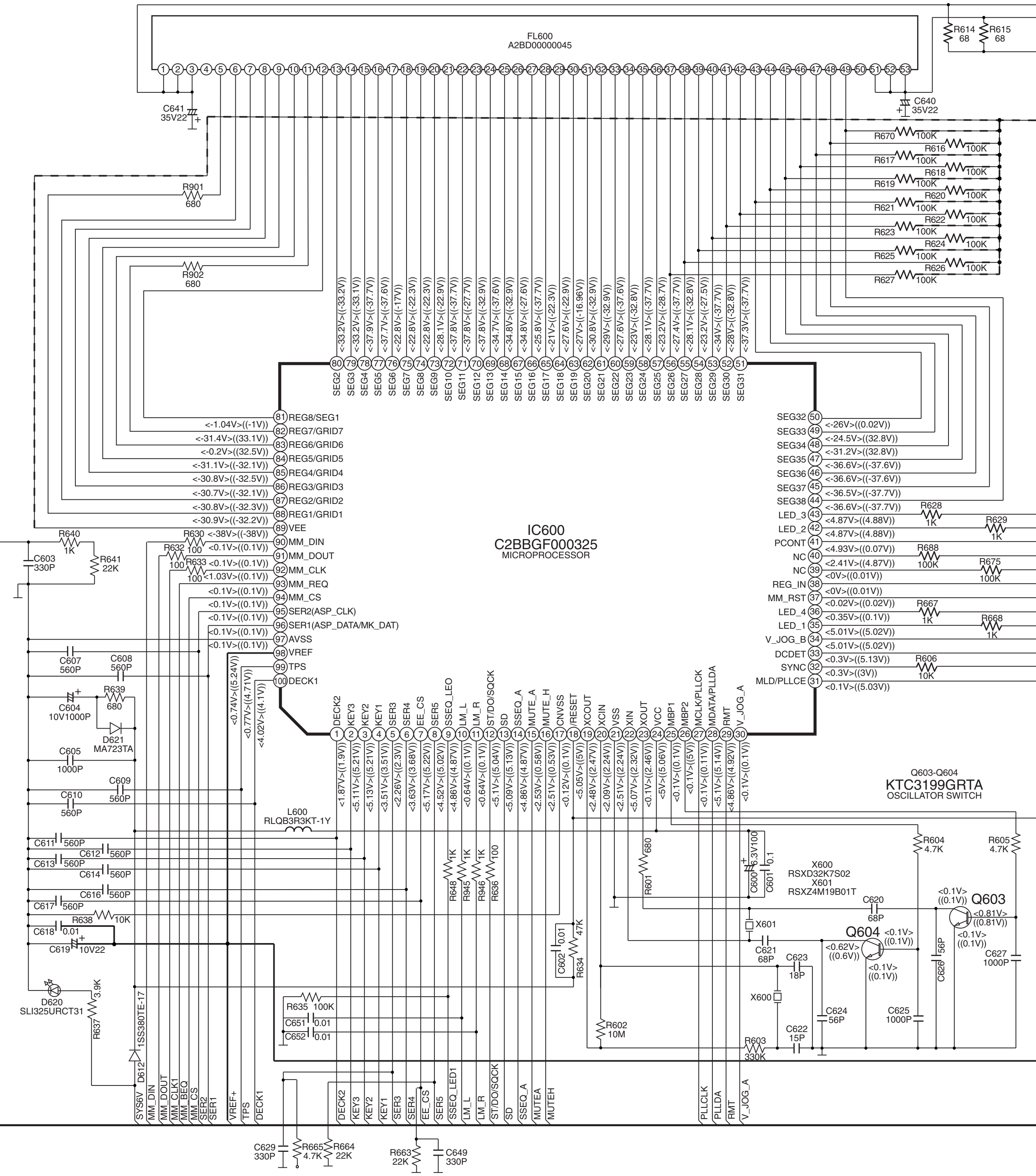

S600
POWER
R676
1K
S601
DISPLAY
R677
1K
S602
DISC 1
R678
1.2K
S603
DISC 2
R679
1.8K
S604
DISC 3
R680
2.2K
S605
DISC 4
R681
2.7K
S606
DISC 5
R682
4.7K
S607
CD OPEN/
CLOSE
VR600
EVEKE2F3024M
JOG VOL
A
COM
B
C653
100P
C654
100P
R659
47K
R660
47K
Z600
RCD37142TC5
REMOTE SENSOR
O VDD G
C655
1000P
C656
0.01
C669
6.3V47
R699
47
VREF+
REG_IN
RMT
V_JOG_B
DVREF+
V_JOG_A
R647
10K
R645
10K
VREF+
R646
10K
R644
100
KEY1
R642
100
KEY2
R643
100
KEY3
HPL
LED_1
HP_GND
LED9V
HPR
D905
LNJ301MPUJAD
R925
270
R924
270
D904
LNJ301MPUJAD
D903
SLR325YCT31
D902
SLR325YCT31
R922
220
R920
4.7K
R919
2.7K
R918
2.2K
R917
1.8K
R916
1.2K
R915
1K
R914
1K
S928
SUBWOOFER
SOUND EQ
S926
REC/STOP
S925
DECK 1/2
S924
DECK1
OPEN
S923
REW
S922
STOP/DEMO
S921
FF
S920
DECK2
OPEN
S914
SS-EQ
S913
AUX
S912
TUN/BAND
S911
TAPE PLAY
S910
CD PLAY
R913
1.8K
R912
1.2K
R911
1K
R910
1K
LED_1
SSEQ_LED
LED9V
K2
K3
SUB_K2
CP900
CN900
LED_1
SSEQ_LED
LED9V
K2
K3
R698
6.8K
Q616
KTC3199GRTA
SWITCH
<5.95V>
((5.4V))
Q616
<0V>
((0V))
<0V>
((0V))
SSEQ_LED1
L606-L607
RLQZP101KT-Y
L608
RLQZP100KT-Y
L608
C672
0.022
C671
0.022
L607
L606
C670
0.047
HEADPHONE
JK601

## D TACT SWITCH CIRCUIT

# SCHEMATIC DIAGRAM - 9

—— : +B SIGNAL LINE　　– – : -B SIGNAL LINE

## C PANEL CIRCUIT

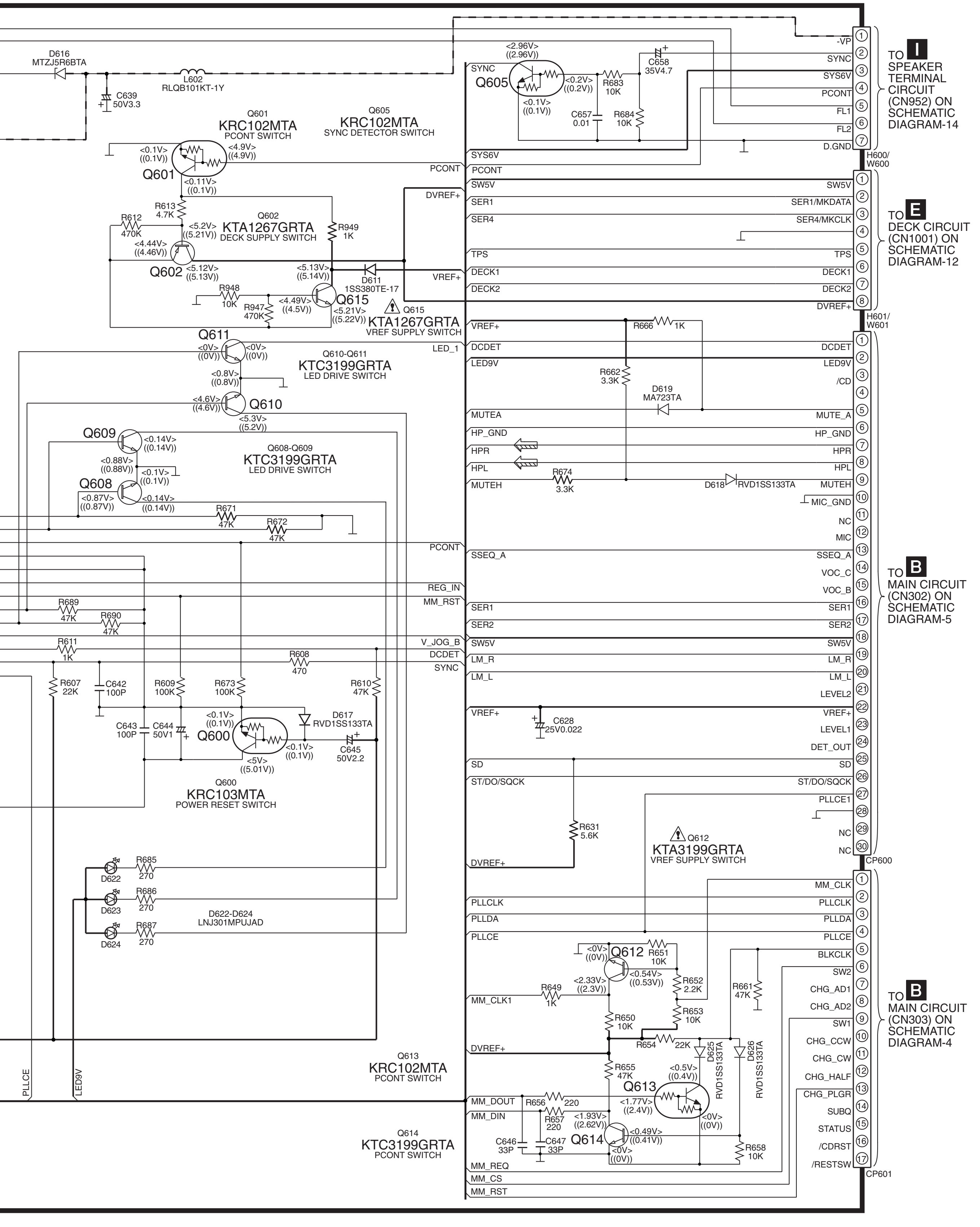


FL600
A2BD00000045
R614 68
R615 68
C640 35V22
C641 35V22
R901 680
R902 680
R670 100K
R616 100K
R617 100K
R618 100K
R619 100K
R620 100K
R621 100K
R622 100K
R623 100K
R624 100K
R625 100K
R626 100K
R627 100K
IC600
C2BBGF000325
MICROPROCESSOR
SEG2
SEG3
SEG4
SEG5
SEG6
SEG7
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG20
SEG21
SEG22
SEG23
SEG24
SEG25
SEG26
SEG27
SEG28
SEG29
SEG30
SEG31
REG8/SEG1
REG7/GRID7
REG6/GRID6
REG5/GRID5
REG4/GRID4
REG3/GRID3
REG2/GRID2
REG1/GRID1
VEE
MM_DIN
MM_DOUT
MM_CLK
MM_REQ
MM_CS
SER2(ASP_CLK)
SER1(ASP_DATA/MK_DAT)
AVSS
VREF
TPS
DECK1
SEG32
SEG33
SEG34
SEG35
SEG36
SEG37
SEG38
LED_3
LED_2
PCONT
NC
NC
REG_IN
MM_RST
LED_4
LED_1
V_JOG_B
DCDET
SYNC
MLD/PLLCE
DECK2
KEY3
KEY2
KEY1
SER3
SER4
EE_CS
SER5
SSEQ_LEO
LM_L
LM_R
ST/DO/SQCK
SD
SSEQ_A
MUTE_A
MUTE_H
CNVSS
/RESET
XCOUT
XCIN
VSS
XIN
XOUT
VCC
MBP1
MBP2
MCLK/PLLCK
MDATA/PLLDA
RMT
V_JOG_A
R628 1K
R629 1K
R688 100K
R675 100K
R667 1K
R668 1K
R606 10K
R640 1K
C603 330P
R641 22K
R630 100
R632 100
R633 100
C607 560P
C608 560P
C604 10V1000P
R639 680
D621 MA723TA
C605 1000P
C609 560P
C610 560P
L600
RLQB3R3KT-1Y
C611 560P
C612 560P
C613 560P
C614 560P
C616 560P
C617 560P
R638 10K
C618 0.01
C619 10V22
D620
SLI325URCT31
R637 3.9K
D612 1SS380TE-17
R635 100K
C651 0.01
C652 0.01
R648 1K
R945 1K
R946 1K
R636 100
C602 0.01
R634 47K
R601 680
C600 6.3V100
C601 0.1
R602 10M
R603 330K
X600
RSXD32K7S02
X601
RSXZ4M19B01T
C620 68P
C621 68P
C623 18P
C622 15P
C624 56P
C625 1000P
C626 56P
C627 1000P
R604 4.7K
R605 4.7K
Q603-Q604
KTC3199GRTA
OSCILLATOR SWITCH
Q603
Q604
SYS6V
MM_DIN
MM_DOUT
MM_CLK1
MM_BEQ
MM_CS
SER2
SER1
VREF+
TPS
DECK1
DECK2
KEY3
KEY2
KEY1
SER3
SER4
EE_CS
SER5
SSEQ_LED1
LM_L
LM_R
ST/DO/SQCK
SD
SSEQ_A
MUTEA
MUTEH
PLLCLK
PLLDA
RMT
V_JOG_A
C629 330P
R665 4.7K
R664 22K
R663 22K
C649 330P

# SCHEMATIC DIAGRAM - 10

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

## C PANEL CIRCUIT


D616
MTZJ5R6BTA
L602
RLQB101KT-1Y
C639
50V3.3
Q601
KRC102MTA
PCONT SWITCH
Q605
KRC102MTA
SYNC DETECTOR SWITCH
<2.96V>
((2.96V))
SYNC
Q605
<0.2V>
((0.2V))
R683
10K
C658
35V4.7
<0.1V>
((0.1V))
C657
0.01
R684
10K
<0.1V>
((0.1V))
<4.9V>
((4.9V))
Q601
<0.11V>
((0.1V))
R613
4.7K
R612
470K
Q602
<5.2V>
((5.21V))
KTA1267GRTA
DECK SUPPLY SWITCH
R949
1K
<4.44V>
((4.46V))
Q602
<5.12V>
((5.13V))
<5.13V>
((5.14V))
D611
1SS380TE-17
R948
10K
R947
470K
<4.49V>
((4.5V))
Q615
<5.21V>
((5.22V))
Q615
KTA1267GRTA
VREF SUPPLY SWITCH
Q611
<0V>
((0V))
<0V>
((0V))
Q610-Q611
KTC3199GRTA
LED DRIVE SWITCH
<0.8V>
((0.8V))
<4.6V>
((4.6V))
Q610
<5.3V>
((5.2V))
Q609
<0.14V>
((0.14V))
Q608-Q609
KTC3199GRTA
LED DRIVE SWITCH
<0.88V>
((0.88V))
<0.1V>
((0.1V))
Q608
<0.87V>
((0.87V))
<0.14V>
((0.14V))
R671
47K
R672
47K
R689
47K
R690
47K
R611
1K
R608
470
R607
22K
C642
100P
R609
100K
R673
100K
R610
47K
<0.1V>
((0.1V))
D617
RVD1SS133TA
C643
100P
C644
50V1
Q600
<0.1V>
((0.1V))
C645
50V2.2
<5V>
((5.01V))
Q600
KRC103MTA
POWER RESET SWITCH
D622
R685
270
D623
R686
270
D622-D624
LNJ301MPUJAD
D624
R687
270
PLLCE
LED9V
PCONT
DVREF+
VREF+
LED_1
PCONT
REG_IN
MM_RST
V_JOG_B
DCDET
SYNC
SYNC
SYS6V
PCONT
SW5V
SER1
SER4
TPS
DECK1
DECK2
VREF+
DCDET
LED9V
MUTEA
HP_GND
HPR
HPL
MUTEH
SSEQ_A
SER1
SER2
SW5V
LM_R
LM_L
VREF+
SD
ST/DO/SQCK
DVREF+
PLLCLK
PLLDA
PLLCE
MM_CLK1
DVREF+
MM_DOUT
MM_DIN
MM_REQ
MM_CS
MM_RST
R666
1K
R662
3.3K
D619
MA723TA
R674
3.3K
D618
RVD1SS133TA
C628
25V0.022
R631
5.6K
Q612
KTA3199GRTA
VREF SUPPLY SWITCH
<0V>
((0V))
Q612
R651
10K
<0.54V>
((0.53V))
R652
2.2K
<2.33V>
((2.3V))
R649
1K
R661
47K
R653
10K
R650
10K
R654
22K
D625
RVD1SS133TA
D626
RVD1SS133TA
Q613
KRC102MTA
PCONT SWITCH
R655
47K
<0.5V>
((0.4V))
Q613
R656
220
<1.77V>
((2.4V))
R657
220
<1.93V>
((2.62V))
<0V>
((0V))
<0.49V>
((0.41V))
Q614
KTC3199GRTA
PCONT SWITCH
C646
33P
C647
33P
Q614
<0V>
((0V))
R658
10K
-VP ①
SYNC ②
SYS6V ③
PCONT ④
FL1 ⑤
FL2 ⑥
D.GND ⑦
H600/
W600
TO I
SPEAKER
TERMINAL
CIRCUIT
(CN952) ON
SCHEMATIC
DIAGRAM-14
SW5V ①
SER1/MKDATA ②
SER4/MKCLK ③
④
TPS ⑤
DECK1 ⑥
DECK2 ⑦
DVREF+ ⑧
H601/
W601
TO E
DECK CIRCUIT
(CN1001) ON
SCHEMATIC
DIAGRAM-12
DCDET ①
LED9V ②
/CD ③
④
MUTE_A ⑤
HP_GND ⑥
HPR ⑦
HPL ⑧
MUTEH ⑨
MIC_GND ⑩
NC ⑪
MIC ⑫
SSEQ_A ⑬
VOC_C ⑭
VOC_B ⑮
SER1 ⑯
SER2 ⑰
⑱
SW5V ⑲
LM_R ⑳
LM_L ㉑
LEVEL2 ㉒
VREF+ ㉓
LEVEL1 ㉔
DET_OUT ㉕
SD ㉖
ST/DO/SQCK ㉗
PLLCE1 ㉘
NC ㉙
NC ㉚
CP600
TO B
MAIN CIRCUIT
(CN302) ON
SCHEMATIC
DIAGRAM-5
MM_CLK ①
PLLCLK ②
PLLDA ③
PLLCE ④
BLKCLK ⑤
SW2 ⑥
CHG_AD1 ⑦
CHG_AD2 ⑧
SW1 ⑨
CHG_CCW ⑩
CHG_CW ⑪
CHG_HALF ⑫
CHG_PLGR ⑬
SUBQ ⑭
STATUS ⑮
/CDRST ⑯
/RESTSW ⑰
CP601
TO B
MAIN CIRCUIT
(CN303) ON
SCHEMATIC
DIAGRAM-4

# SCHEMATIC DIAGRAM - 11

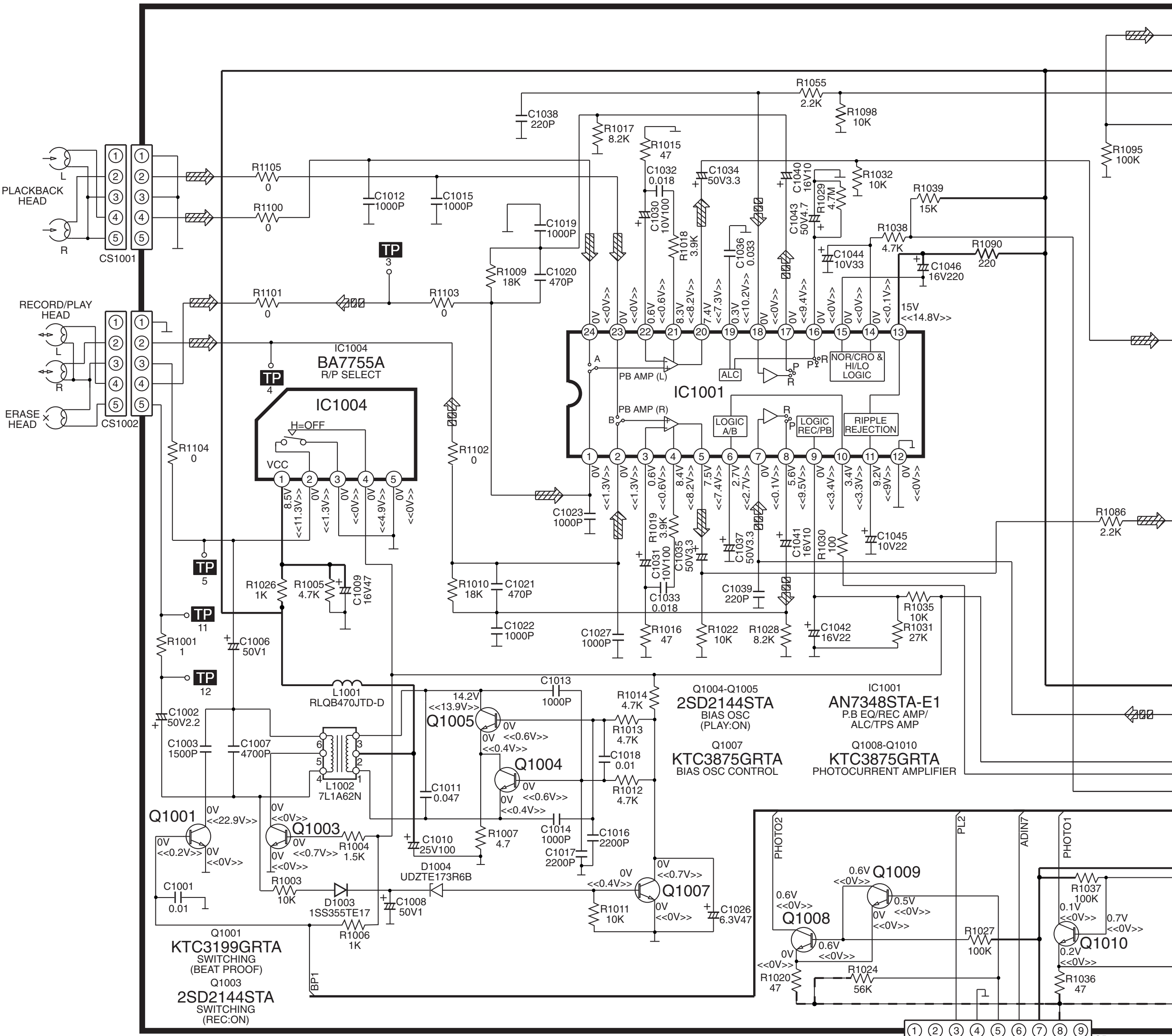
—— : +B SIGNAL LINE

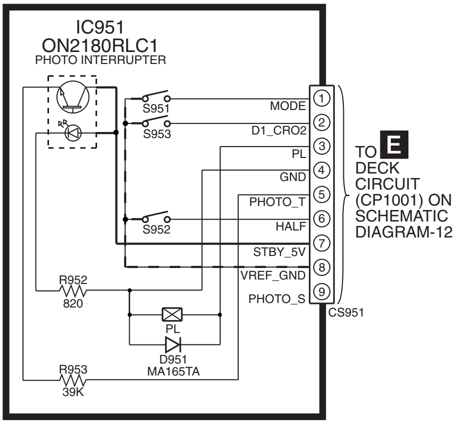
– – : -B SIGNAL LINE

▨⇨ : PLAYBACK SIGNAL LINE

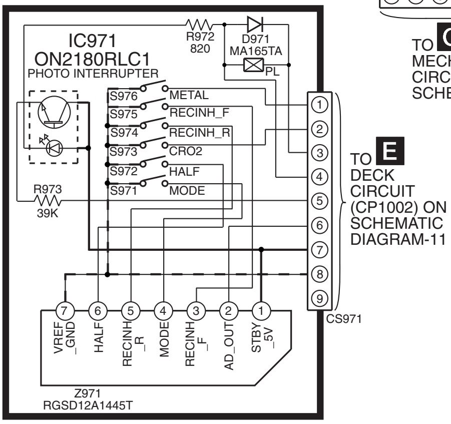
▯▯▯⇨ : RECORD SIGNAL LINE

## E DECK CIRCUIT


PLACKBACK HEAD
L
R
CS1001
RECORD/PLAY HEAD
ERASE HEAD
CS1002
R1105 0
R1100 0
C1012 1000P
C1015 1000P
R1101 0
R1103 0
TP 3
TP 4
IC1004 BA7755A R/P SELECT
IC1004
H=OFF
VCC
R1104 0
TP 5
R1026 1K
R1005 4.7K
C1009 16V47
TP 11
R1001 1
C1006 50V1
TP 12
C1002 50V2.2
C1003 1500P
C1007 4700P
L1001 RLQB470JTD-D
L1002 7L1A62N
Q1001
Q1003
R1004 1.5K
R1003 10K
D1003 1SS355TE17
C1001 0.01
R1006 1K
BP1
Q1001 KTC3199GRTA SWITCHING (BEAT PROOF)
Q1003 2SD2144STA SWITCHING (REC:ON)
C1038 220P
C1019 1000P
C1020 470P
R1009 18K
R1102 0
R1010 18K
C1021 470P
C1022 1000P
C1023 1000P
C1027 1000P
Q1005
Q1004
C1013 1000P
R1014 4.7K
R1013 4.7K
C1018 0.01
R1012 4.7K
C1011 0.047
C1010 25V100
R1007 4.7
C1014 1000P
C1016 2200P
C1017 2200P
D1004 UDZTE173R6B
C1008 50V1
R1011 10K
Q1007
C1026 6.3V47
Q1004-Q1005 2SD2144STA BIAS OSC (PLAY:ON)
Q1007 KTC3875GRTA BIAS OSC CONTROL
IC1001 AN7348STA-E1 P.B EQ/REC AMP/ ALC/TPS AMP
Q1008-Q1010 KTC3875GRTA PHOTOCURRENT AMPLIFIER
R1017 8.2K
R1015 47
C1032 0.018
C1030 10V100
R1018 3.9K
C1034 50V3.3
C1036 0.033
R1055 2.2K
R1098 10K
C1040 16V10
C1043 50V4.7
R1029 4.7M
R1032 10K
C1044 10V33
R1039 15K
R1038 4.7K
R1090 220
C1046 16V220
R1095 100K
IC1001
PB AMP (L)
PB AMP (R)
ALC
NOR/CRO & HI/LO LOGIC
LOGIC A/B
LOGIC REC/PB
RIPPLE REJECTION
R1019 3.9K
C1031 10V100
C1035 50V3.3
C1033 0.018
C1037 50V3.3
C1039 220P
C1041 16V10
R1030 100
C1045 10V22
R1016 47
R1022 10K
R1028 8.2K
C1042 16V22
R1035 10K
R1031 27K
R1086 2.2K
PHOTO2
PL2
ADIN7
PHOTO1
Q1009
Q1008
Q1010
R1037 100K
R1027 100K
R1020 47
R1024 56K
R1036 47
CP1002
TO G MECHANISM CIRCUIT (CS971) ON SCHEMATIC DIAGRAM-11


IC951 ON2180RLC1 PHOTO INTERRUPTER
S951
S953
S952
MODE
D1_CRO2
PL
GND
PHOTO_T
HALF
STBY_5V
VREF_GND
PHOTO_S
CS951
R952 820
R953 39K
PL
D951 MA165TA
TO E DECK CIRCUIT (CP1001) ON SCHEMATIC DIAGRAM-12

## F MECHANISM CIRCUIT (DECK 1)


IC971 ON2180RLC1 PHOTO INTERRUPTER
R972 820
D971 MA165TA
PL
S976 METAL
S975 RECINH_F
S974 RECINH_R
S973 CRO2
S972 HALF
S971 MODE
R973 39K
VREF _GND
HALF
RECINH _R
MODE
RECINH _F
AD_OUT
STBY _5V
Z971 RGSD12A1445T
CS971
TO E DECK CIRCUIT (CP1002) ON SCHEMATIC DIAGRAM-11

## G MECHANISM CIRCUIT (DECK 2)

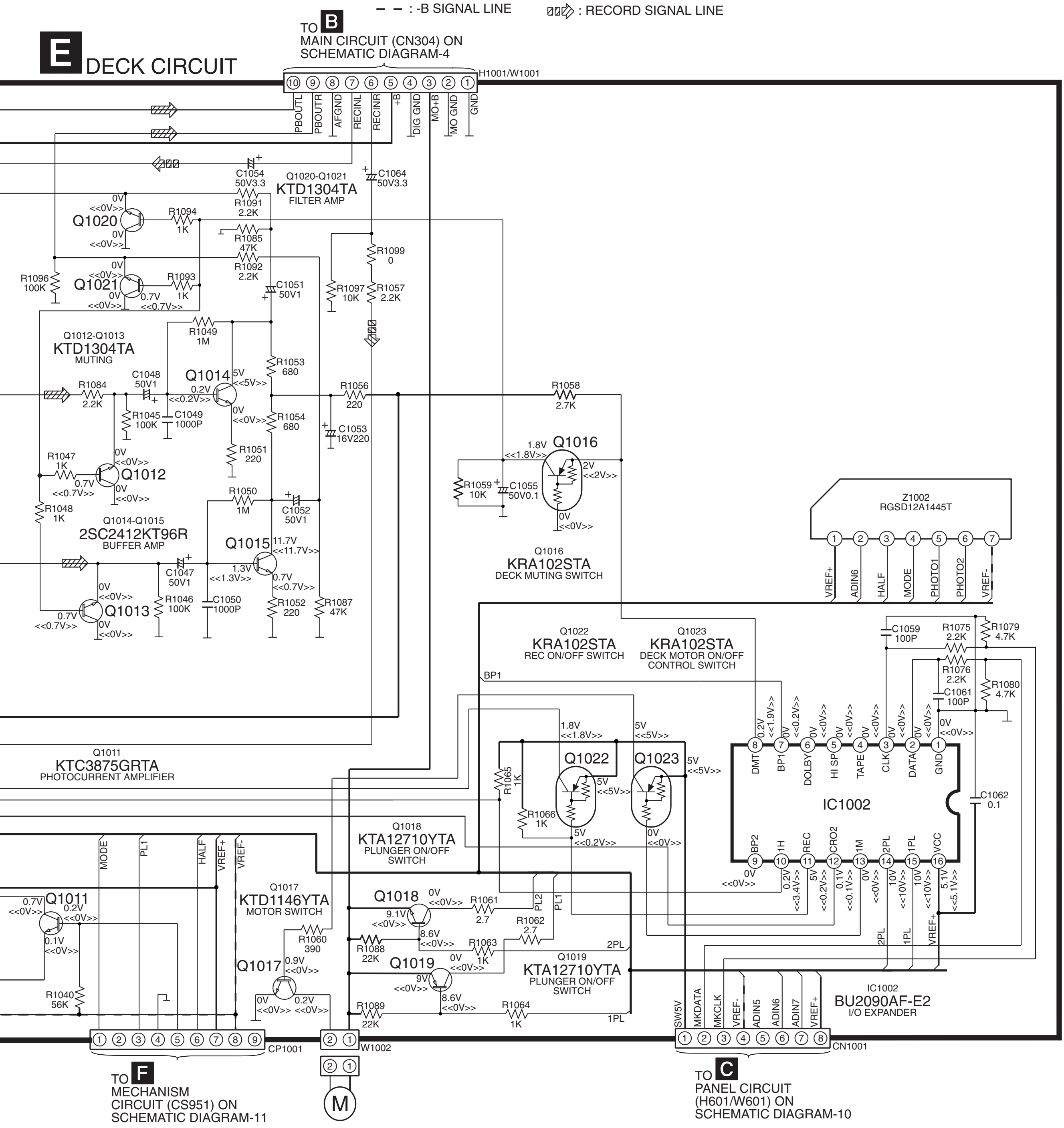
# SCHEMATIC DIAGRAM - 12

— : +B SIGNAL LINE

– – : -B SIGNAL LINE

▨⇨ : PLAYBACK SIGNAL LINE

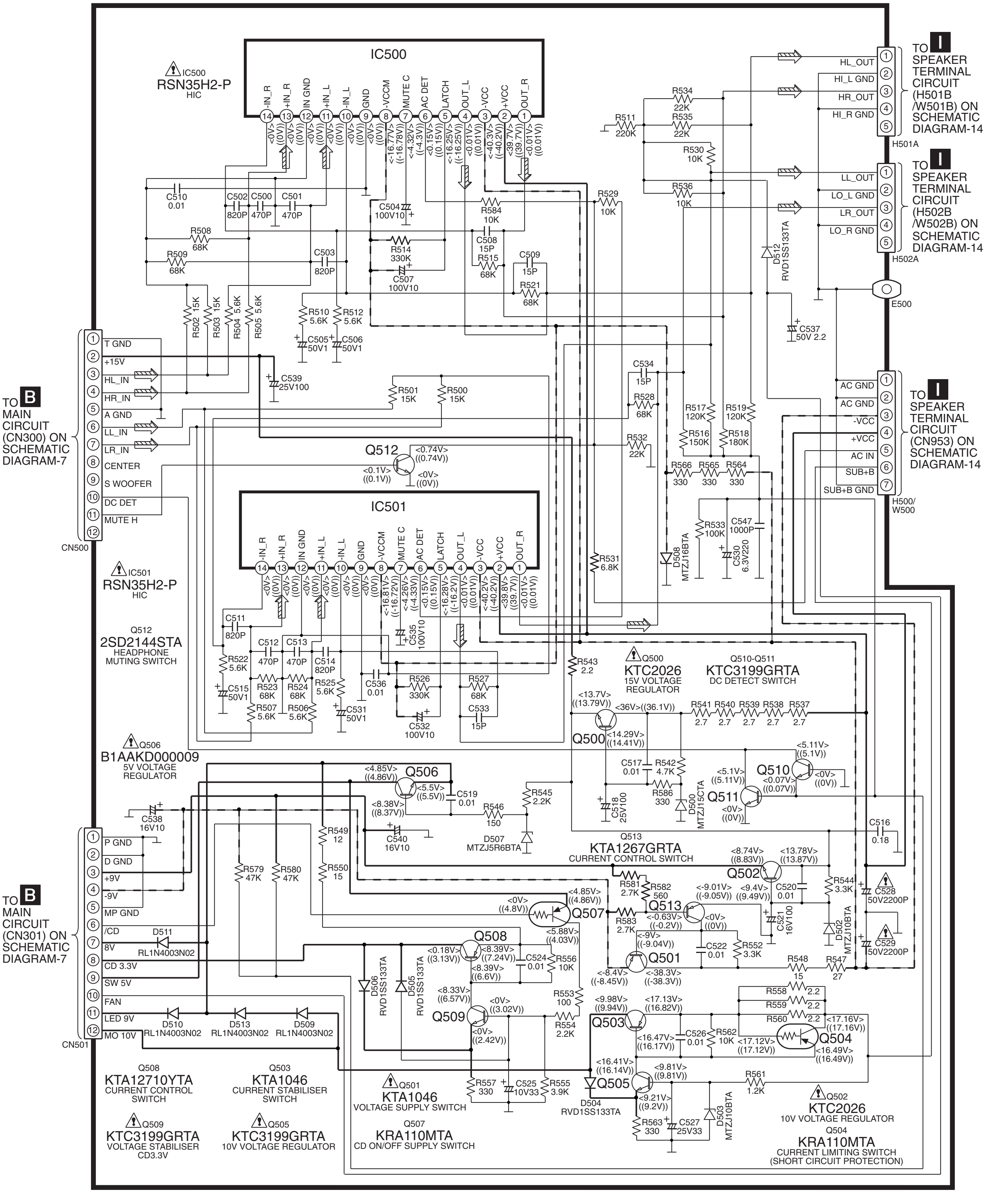
▨⇨ : RECORD SIGNAL LINE


E DECK CIRCUIT
TO B MAIN CIRCUIT (CN304) ON SCHEMATIC DIAGRAM-4
H1001/W1001
PBOUTL
PBOUTR
AFGND
RECINL
RECINR
+B
DIG GND
MO+B
MO GND
GND
C1054 50V3.3
C1064 50V3.3
Q1020-Q1021 KTD1304TA FILTER AMP
R1091 2.2K
R1094 1K
R1085 47K
R1092 2.2K
R1093 1K
R1096 100K
Q1020
Q1021
R1099 0
R1097 10K
R1057 2.2K
C1051 50V1
Q1012-Q1013 KTD1304TA MUTING
R1049 1M
R1053 680
R1084 2.2K
C1048 50V1
Q1014
R1045 100K
C1049 1000P
R1054 680
R1056 220
C1053 16V220
R1051 220
R1058 2.7K
R1047 1K
Q1012
Q1016
R1059 10K
C1055 50V0.1
R1050 1M
C1052 50V1
R1048 1K
Q1014-Q1015 2SC2412KT96R BUFFER AMP
Q1015
C1047 50V1
Q1016 KRA102STA DECK MUTING SWITCH
Z1002 RGSD12A1445T
VREF+
ADIN6
HALF
MODE
PHOTO1
PHOTO2
VREF-
Q1013
R1046 100K
C1050 1000P
R1052 220
R1087 47K
Q1022 KRA102STA REC ON/OFF SWITCH
Q1023 KRA102STA DECK MOTOR ON/OFF CONTROL SWITCH
C1059 100P
R1075 2.2K
R1079 4.7K
R1076 2.2K
C1061 100P
R1080 4.7K
BP1
Q1011 KTC3875GRTA PHOTOCURRENT AMPLIFIER
R1065 1K
Q1022
Q1023
R1066 1K
DMT
BP1
DOLBY
HI SP
TAPE
CLK
DATA
GND
IC1002
C1062 0.1
BP2
1H
REC
CRO2
1M
2PL
1PL
VCC
MODE
PL1
HALF
VREF+
VREF-
Q1018 KTA12710YTA PLUNGER ON/OFF SWITCH
Q1017 KTD1146YTA MOTOR SWITCH
Q1011
Q1018
R1061 2.7
R1062 2.7
R1060 390
R1088 22K
R1063 1K
PL2
PL1
2PL
1PL
VREF+
Q1019 KTA12710YTA PLUNGER ON/OFF SWITCH
Q1019
Q1017
R1040 56K
R1089 22K
R1064 1K
IC1002 BU2090AF-E2 I/O EXPANDER
SW5V
MKDATA
MKCLK
VREF-
ADIN5
ADIN6
ADIN7
VREF+
CP1001
W1002
CN1001
TO F MECHANISM CIRCUIT (CS951) ON SCHEMATIC DIAGRAM-11
M
TO C PANEL CIRCUIT (H601/W601) ON SCHEMATIC DIAGRAM-10

# SCHEMATIC DIAGRAM - 13

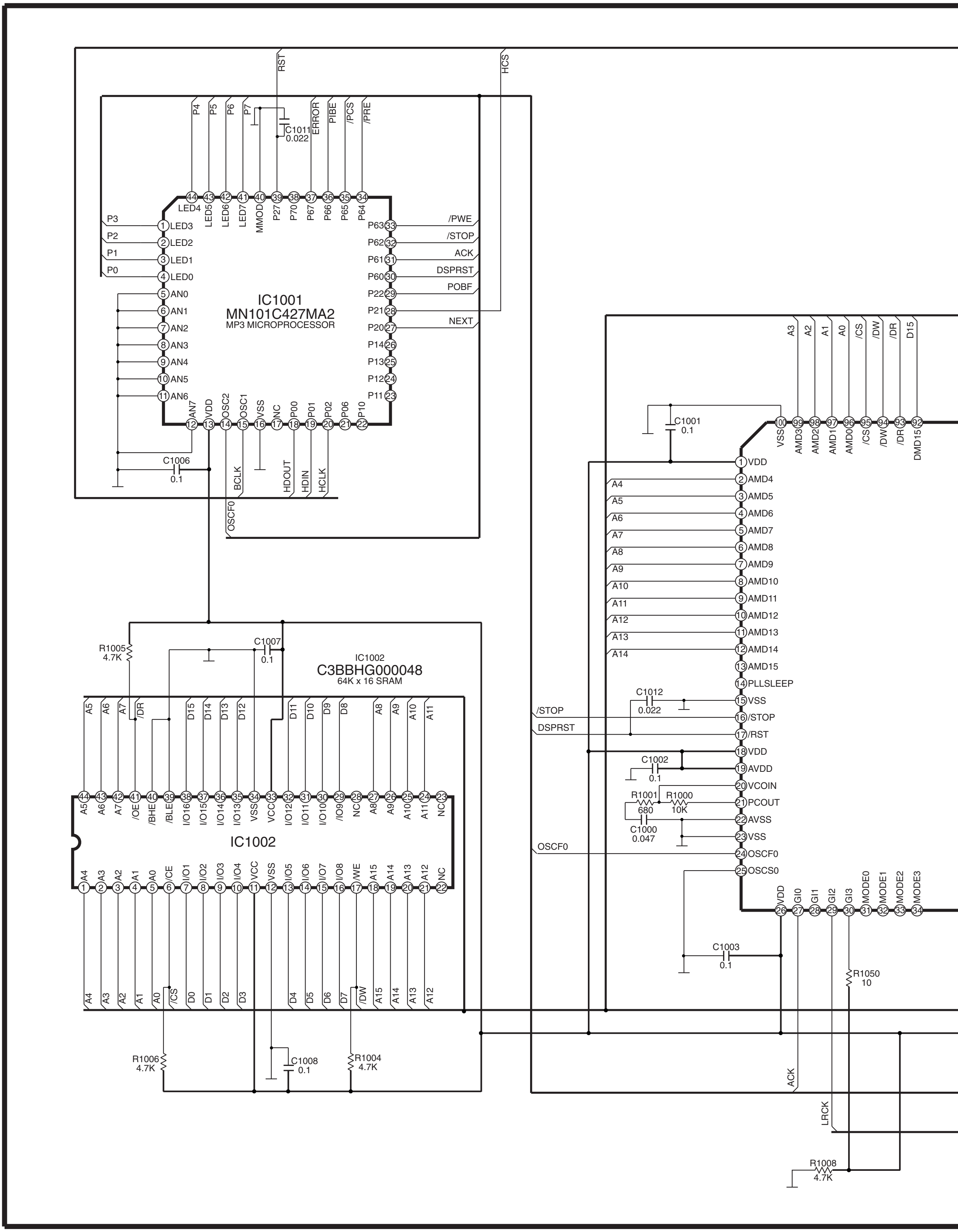
—— : +B SIGNAL LINE    - - : -B SIGNAL LINE    ⇨ : MAIN SIGNAL LINE

## H POWER CIRCUIT


IC500
IC500
RSN35H2-P
HIC
-IN_R 14
+IN_R 13
IN GND 12
+IN_L 11
-IN_L 10
GND 9
-VCCM 8
MUTE C 7
AC DET 6
LATCH 5
OUT_L 4
-VCC 3
+VCC 2
OUT_R 1
<0V> ((0V))
<-16.77V> ((-16.78V))
<-4.32V> ((-4.3V))
<0.15V> ((0.15V))
<-16.25V> ((-16.25V))
<0.01V> ((0.01V))
<-40.3V> ((-40.2V))
<39.7V> ((39.7V))
<-0.01V> ((0.01V))
C510 0.01
C502 820P
C500 470P
C501 470P
C504 100V10
R584 10K
R529 10K
R508 68K
R509 68K
R514 330K
C508 15P
R515 68K
C509 15P
C503 820P
C507 100V10
R521 68K
R502 15K
R503 15K
R504 5.6K
R505 5.6K
R510 5.6K
R512 5.6K
C505 50V1
C506 50V1
R534 22K
R511 220K
R535 22K
R530 10K
R536 10K
D512 RVD1SS133TA
E500
C537 50V 2.2
HL_OUT 1
HI_L GND 2
HR_OUT 3
HI_R GND 4
5
H501A
TO I SPEAKER TERMINAL CIRCUIT (H501B /W501B) ON SCHEMATIC DIAGRAM-14
LL_OUT 1
LO_L GND 2
LR_OUT 3
LO_R GND 4
5
H502A
TO I SPEAKER TERMINAL CIRCUIT (H502B /W502B) ON SCHEMATIC DIAGRAM-14
AC GND 1
AC GND 2
-VCC 3
+VCC 4
AC IN 5
SUB+B 6
SUB+B GND 7
H500/ W500
TO I SPEAKER TERMINAL CIRCUIT (CN953) ON SCHEMATIC DIAGRAM-14
TO B MAIN CIRCUIT (CN300) ON SCHEMATIC DIAGRAM-7
1 T GND
2 +15V
3 HL_IN
4 HR_IN
5 A GND
6 LL_IN
7 LR_IN
8 CENTER
9 S WOOFER
10 DC DET
11 MUTE H
12
CN500
C539 25V100
R501 15K
R500 15K
C534 15P
R528 68K
R517 120K
R519 120K
R516 150K
R518 180K
R532 22K
R566 330
R565 330
R564 330
Q512
<0.74V> ((0.74V))
<0.1V> ((0.1V))
<0V> ((0V))
R533 100K
C547 1000P
C530 6.3V220
D508 MTZJ16BTA
R531 6.8K
IC501
IC501
RSN35H2-P
HIC
-IN_R 14
+IN_R 13
IN GND 12
+IN_L 11
-IN_L 10
GND 9
-VCCM 8
MUTE C 7
AC DET 6
LATCH 5
OUT_L 4
-VCC 3
+VCC 2
OUT_R 1
<-16.81V> ((-16.72V))
<-4.26V> ((-4.33V))
<0.15V> ((0.15V))
<-16.28V> ((-16.2V))
<0.01V> ((0.01V))
<-40.2V> ((-40.2V))
<39.8V> ((39.7V))
<0.01V> ((0.01V))
Q512
2SD2144STA
HEADPHONE MUTING SWITCH
C511 820P
C512 470P
C513 470P
C514 820P
C535 100V10
R522 5.6K
C515 50V1
R523 68K
R524 68K
R525 5.6K
C536 0.01
R526 330K
R527 68K
C533 15P
R507 5.6K
R506 5.6K
C531 50V1
C532 100V10
R543 2.2
Q500
KTC2026
15V VOLTAGE REGULATOR
Q510-Q511
KTC3199GRTA
DC DETECT SWITCH
<13.7V> ((13.79V))
<36V> ((36.1V))
R541 2.7
R540 2.7
R539 2.7
R538 2.7
R537 2.7
Q500
<14.29V> ((14.41V))
<5.11V> ((5.1V))
C517 0.01
R542 4.7K
<5.1V> ((5.11V))
Q510
<0.07V> ((0.07V))
<0V> ((0V))
R586 330
D500 MTZJ15CTA
Q511
<0V> ((0V))
C518 25V100
C516 0.18
Q506
B1AAKD000009
5V VOLTAGE REGULATOR
<4.85V> ((4.86V))
Q506
<5.5V> ((5.5V))
C519 0.01
<8.38V> ((8.37V))
R545 2.2K
R546 150
D507 MTZJ5R6BTA
C538 16V10
C540 16V10
R549 12
R550 15
Q513
KTA1267GRTA
CURRENT CONTROL SWITCH
<8.74V> ((8.83V))
<13.78V> ((13.87V))
Q502
C520 0.01
R544 3.3K
C528 50V2200P
R581 2.7K
R582 560
<-9.01V> ((-9.05V))
<9.4V> ((9.49V))
Q513
<-0.63V> ((-0.2V))
<0V> ((0V))
C521 16V100
D502 MTZJ10BTA
R583 2.7K
<4.85V> ((4.86V))
<0V> ((4.8V))
Q507
R579 47K
R580 47K
<-9V> ((-9.04V))
Q501
C522 0.01
R552 3.3K
C529 50V2200P
<-8.4V> ((-8.45V))
<-38.3V> ((-38.3V))
R548 15
R547 27
1 P GND
2 D GND
3 +9V
4 -9V
5 MP GND
6 /CD
7 8V
8 CD 3.3V
9 SW 5V
10 FAN
11 LED 9V
12 MO 10V
CN501
TO B MAIN CIRCUIT (CN301) ON SCHEMATIC DIAGRAM-7
D511 RL1N4003N02
Q508
<5.88V> ((4.03V))
<0.18V> ((3.13V))
<8.39V> ((7.24V))
<8.39V> ((6.6V))
C524 0.01
R556 10K
D506 RVD1SS133TA
D505 RVD1SS133TA
<8.33V> ((6.57V))
<0V> ((3.02V))
R553 100
Q509
<0V> ((2.42V))
R554 2.2K
D510 RL1N4003N02
D513 RL1N4003N02
D509 RL1N4003N02
<9.98V> ((9.94V))
<17.13V> ((16.82V))
Q503
<16.47V> ((16.17V))
C526 0.01
R562 10K
R558 2.2
R559 2.2
R560 2.2
<17.16V> ((17.16V))
Q504
<17.12V> ((17.12V))
<16.49V> ((16.49V))
<16.41V> ((16.14V))
<9.81V> ((9.81V))
Q505
R561 1.2K
D504 RVD1SS133TA
<9.21V> ((9.2V))
R557 330
C525 10V33
R555 3.9K
R563 330
C527 25V33
D503 MTZJ10BTA
Q508
KTA12710YTA
CURRENT CONTROL SWITCH
Q503
KTA1046
CURRENT STABILISER SWITCH
Q501
KTA1046
VOLTAGE SUPPLY SWITCH
Q502
KTC2026
10V VOLTAGE REGULATOR
Q509
KTC3199GRTA
VOLTAGE STABILISER CD3.3V
Q505
KTC3199GRTA
10V VOLTAGE REGULATOR
Q507
KRA110MTA
CD ON/OFF SUPPLY SWITCH
Q504
KRA110MTA
CURRENT LIMITING SWITCH (SHORT CIRCUIT PROTECTION)

## U MP3 MODULE CIRCUIT

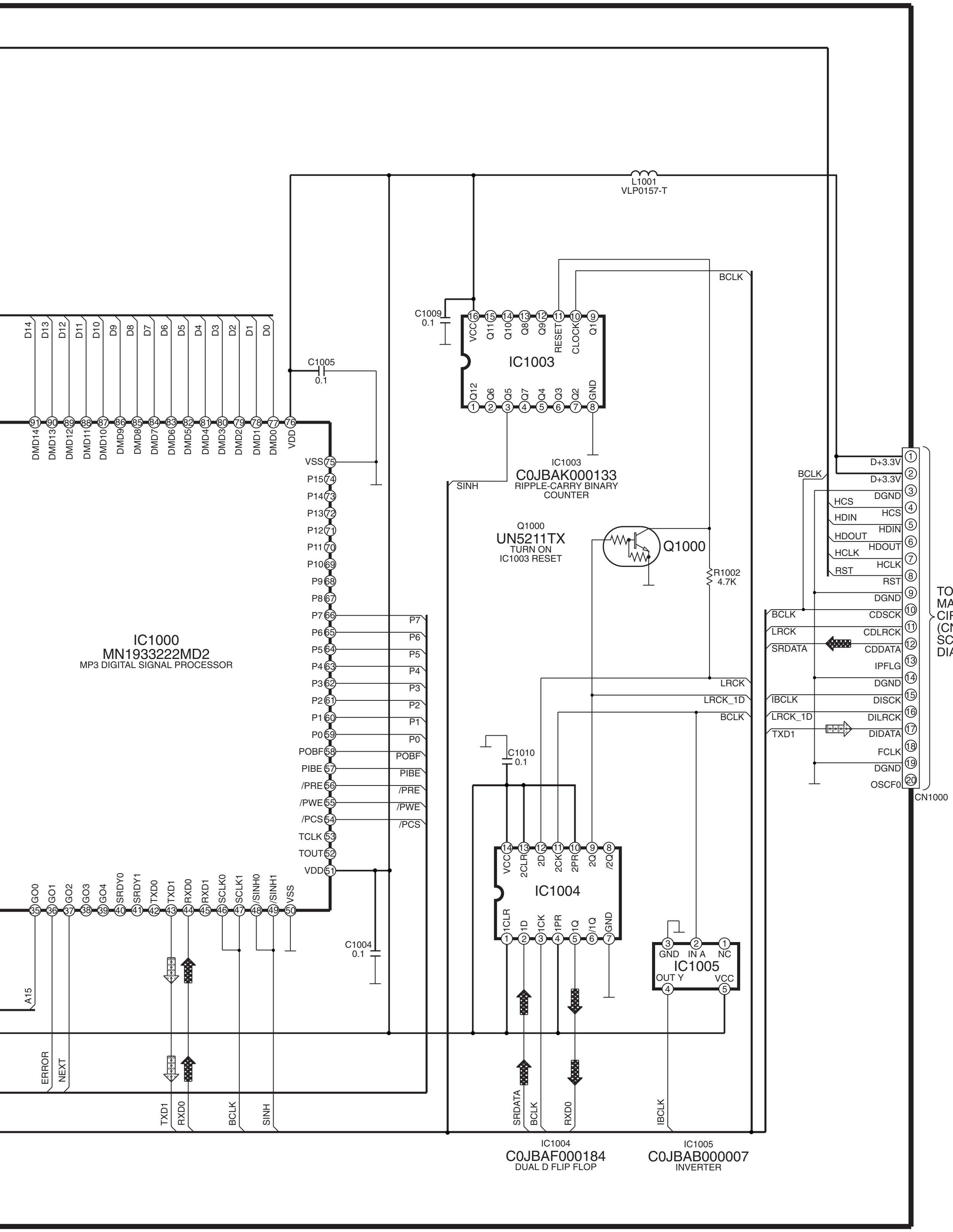
—— : +B SIGNAL LINE

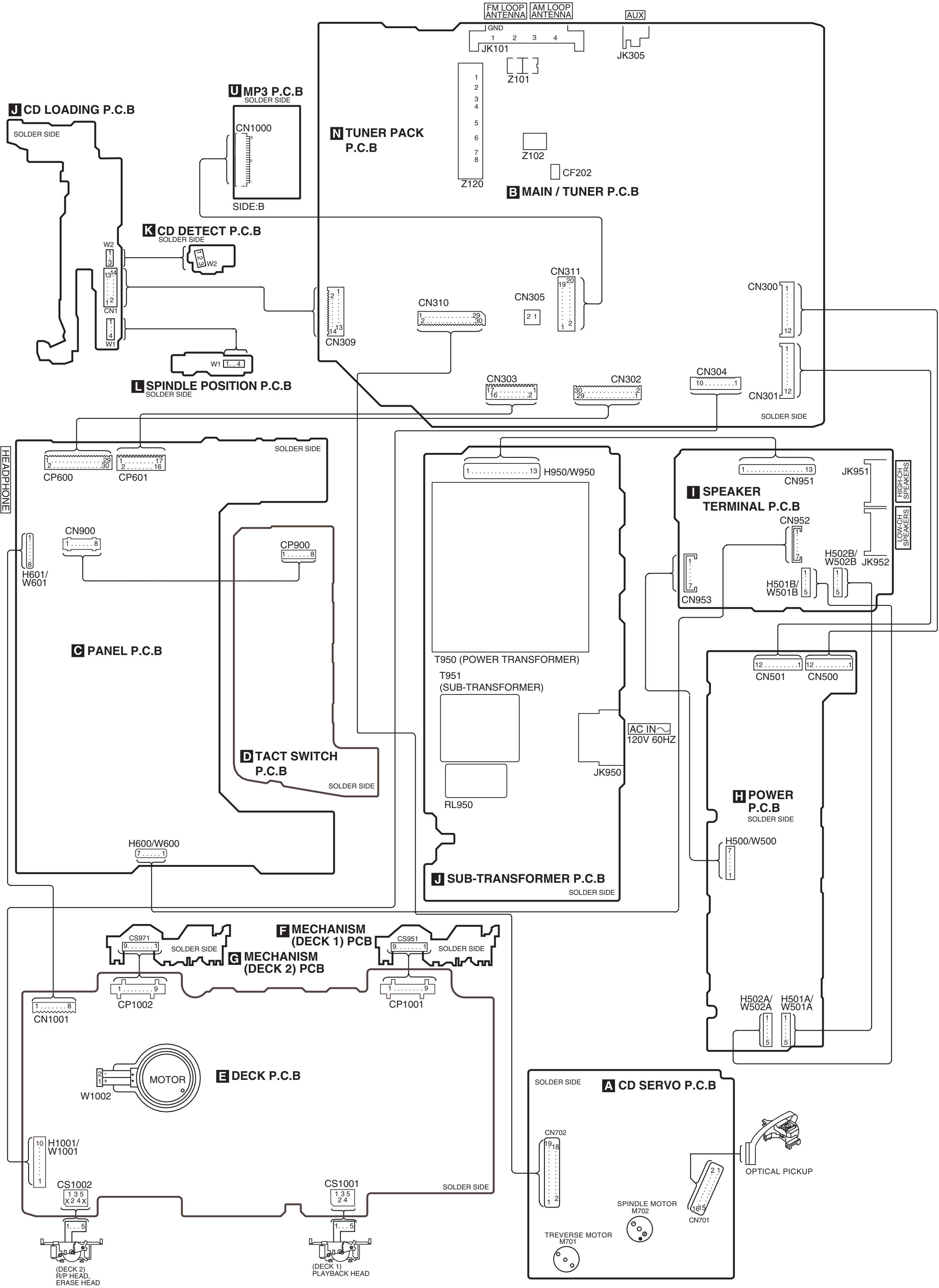

RST
HCS
P4
P5
P6
P7
C1011
0.022
ERROR
PIBE
/PCS
/PRE
LED4
LED5
LED6
LED7
MMOD
P27
P70
P67
P66
P65
P64
P3
P2
P1
P0
LED3
LED2
LED1
LED0
AN0
AN1
AN2
AN3
AN4
AN5
AN6
AN7
VDD
OSC2
OSC1
VSS
NC
P00
P01
P02
P06
P10
P63
P62
P61
P60
P22
P21
P20
P14
P13
P12
P11
/PWE
/STOP
ACK
DSPRST
POBF
NEXT
IC1001
MN101C427MA2
MP3 MICROPROCESSOR
C1006
0.1
BCLK
HDOUT
HDIN
HCLK
OSCF0
R1005
4.7K
C1007
0.1
IC1002
C3BBHG000048
64K x 16 SRAM
A5
A6
A7
/DR
D15
D14
D13
D12
D11
D10
D9
D8
A8
A9
A10
A11
/OE
/BHE
/BLE
I/O16
I/O15
I/O14
I/O13
VSS
VCC
I/O12
I/O11
I/O10
/IO9
NC
IC1002
A4
A3
A2
A1
A0
/CE
I/O1
I/O2
I/O3
I/O4
VCC
VSS
I/O5
I/O6
I/O7
I/O8
/WE
A15
A14
A13
A12
NC
/CS
D0
D1
D2
D3
D4
D5
D6
D7
/DW
R1006
4.7K
C1008
0.1
R1004
4.7K
A3
A2
A1
A0
/CS
/DW
/DR
D15
C1001
0.1
VSS
AMD3
AMD2
AMD1
AMD0
/CS
/DW
/DR
DMD15
VDD
AMD4
AMD5
AMD6
AMD7
AMD8
AMD9
AMD10
AMD11
AMD12
AMD13
AMD14
AMD15
PLLSLEEP
VSS
/STOP
/RST
VDD
AVDD
VCOIN
PCOUT
AVSS
VSS
OSCF0
OSCS0
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
C1012
0.022
/STOP
DSPRST
C1002
0.1
R1001
680
R1000
10K
C1000
0.047
OSCF0
VDD
GI0
GI1
GI2
GI3
MODE0
MODE1
MODE2
MODE3
C1003
0.1
R1050
10
ACK
LRCK
R1008
4.7K

## SCHEMATIC DIAGRAM - 16

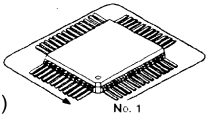
## U MP3 MODULE CIRCUIT

—— : +B SIGNAL LINE   ⇨ : MP3 SIGNAL LINE   ➡ : CD-DA SIGNAL LINE

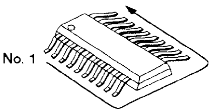

L1001
VLP0157-T
BCLK
C1009
0.1
VCC Q11 Q10 Q8 Q9 RESET CLOCK Q1
IC1003
Q12 Q6 Q5 Q7 Q4 Q3 Q2 GND
IC1003
C0JBAK000133
RIPPLE-CARRY BINARY COUNTER
SINH
C1005
0.1
D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
DMD14 DMD13 DMD12 DMD11 DMD10 DMD9 DMD8 DMD7 DMD6 DMD5 DMD4 DMD3 DMD2 DMD1 DMD0 VDD
VSS P15 P14 P13 P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1 P0 POBF PIBE /PRE /PWE /PCS TCLK TOUT VDD
IC1000
MN1933222MD2
MP3 DIGITAL SIGNAL PROCESSOR
GO0 GO1 GO2 GO3 GO4 SRDY0 SRDY1 TXD0 TXD1 RXD0 RXD1 SCLK0 SCLK1 /SINH0 /SINH1 VSS
A15
ERROR
NEXT
TXD1
RXD0
BCLK
SINH
C1004
0.1
Q1000
UN5211TX
TURN ON IC1003 RESET
Q1000
R1002
4.7K
LRCK
LRCK_1D
BCLK
C1010
0.1
VCC 2CLR 2D 2CK 2PR 2Q /2Q
IC1004
1CLR 1D 1CK 1PR 1Q /1Q GND
GND IN A NC
IC1005
OUT Y VCC
SRDATA
BCLK
RXD0
IBCLK
IC1004
C0JBAF000184
DUAL D FLIP FLOP
IC1005
C0JBAB000007
INVERTER
BCLK
HCS
HDIN
HDOUT
HCLK
RST
BCLK
LRCK
SRDATA
IBCLK
LRCK_1D
TXD1
D+3.3V
D+3.3V
DGND
HCS
HDIN
HDOUT
HCLK
RST
DGND
CDSCK
CDLRCK
CDDATA
IPFLG
DGND
DISCK
DILRCK
DIDATA
FCLK
DGND
OSCF0
CN1000
TO B MAIN CIRCUIT (CN311) ON SCHEMATIC DIAGRAM-6


FM LOOP ANTENNA
AM LOOP ANTENNA
AUX
GND
JK101
JK305
Z101
Z102
CF202
Z120
U MP3 P.C.B
SOLDER SIDE
CN1000
SIDE:B
J CD LOADING P.C.B
SOLDER SIDE
N TUNER PACK P.C.B
B MAIN / TUNER P.C.B
K CD DETECT P.C.B
SOLDER SIDE
W2
CN1
W1
L SPINDLE POSITION P.C.B
SOLDER SIDE
CN309
CN310
CN305
CN311
CN300
CN301
CN303
CN302
CN304
SOLDER SIDE
HEADPHONE
CP600
CP601
SOLDER SIDE
CN900
CP900
H601/W601
C PANEL P.C.B
D TACT SWITCH P.C.B
SOLDER SIDE
H600/W600
H950/W950
T950 (POWER TRANSFORMER)
T951 (SUB-TRANSFORMER)
RL950
AC IN~
120V 60HZ
JK950
J SUB-TRANSFORMER P.C.B
SOLDER SIDE
CN951
JK951
I SPEAKER TERMINAL P.C.B
HIGH-CH SPEAKERS
LOW-CH SPEAKERS
CN952
H502B/W502B
JK952
H501B/W501B
CN953
CN501
CN500
H POWER P.C.B
SOLDER SIDE
H500/W500
H502A/W502A
H501A/W501A
F MECHANISM (DECK 1) PCB
G MECHANISM (DECK 2) PCB
CS971
SOLDER SIDE
CS951
SOLDER SIDE
CP1002
CP1001
CN1001
MOTOR
W1002
E DECK P.C.B
H1001/W1001
CS1002
CS1001
SOLDER SIDE
(DECK 2) R/P HEAD, ERASE HEAD
(DECK 1) PLAYBACK HEAD
SOLDER SIDE
A CD SERVO P.C.B
CN702
OPTICAL PICKUP
SPINDLE MOTOR M702
CN701
TREVERSE MOTOR M701

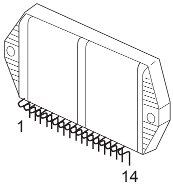
C1BB00000654 (42P)
C2BBGF000323 (64P)
C2BBGF000325 (100P)
MN101C427MA2 (44P)
MN662790RSC (80P)
MN1933222MD2 (100P)



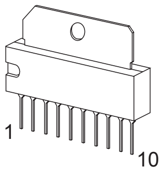
AN7348STA-E1 (24P)
AN8885SBE1 (28P)
BU2090AF-E2 (16P)
LA1833NMNTLM (24P)
LC72131MDTRM (20P)



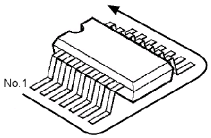
RSN35H2-P



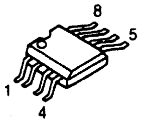
TA7291P



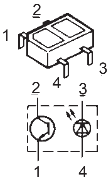
TC74HC4050EL (16P)
TC74HC157AFT (16P)



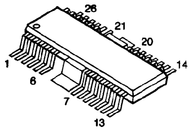
C0AABB000117



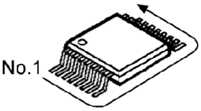
0N2180RLC1



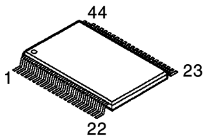
AN8739SBE2


28
21
20
1
6
7
14
13

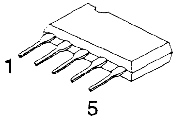
C0JBAK000133 (16P)



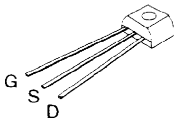
C3BBHG000048 (44P)



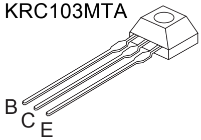
BA7755A



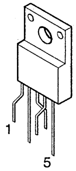
2SK544F-AC



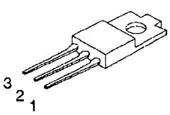
KRA102MTA
KRA110MTA
KRC102MTA
KRC103MTA



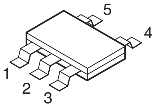
SI8050JLF118



BA033T

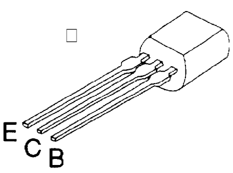


C0JBAB000007

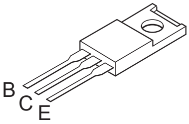


KTA12710YTA
KTC3205YTA
KTD1146YTA
2SB621ARSTA
2SD592AQRSTA
B1AAKD000009

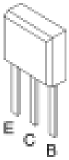
□



KTC2026□
KTA1046

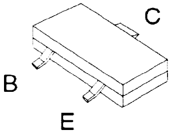


2SC2058SPTA

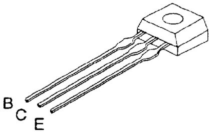


KRA102STA
KRC101STA
KRC102STA
KTC3875GRTA
KTD1304TA
2SA1037AKSTX
2SC2412KT96R
2SC2712GRT5T

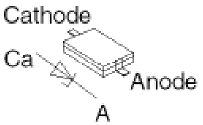
KRA111STA
UN5211TX



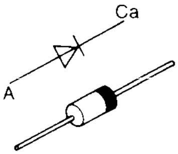
KTA1267GRTA
KTC3199GRTA
RVTDTC143EST
2SA933SSTA
2SC2786MTA
2SC2787FL1TA
2SD2144STA



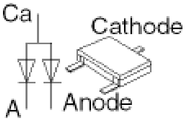
1SS355TE17
1SS380TE-17
UDZSTE1710B
UDZSTE173R1B
UDZSTE175R1B
UDZSTE177R5B


Cathode
Ca
Anode
A

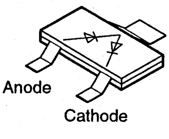
EK14LFH2K



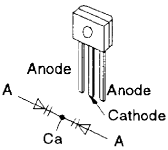
DAP202KT146


Ca
Cathode
A
Anode

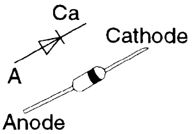
DA204KT146


Anode
Cathode

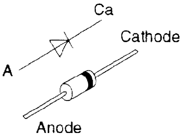
SVC211SPA-AL


Anode
A
Anode
Cathode
Ca
A

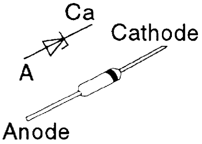
RVD1SS133TA
MA165TA□
MA723TA


Ca
Cathode
A
Anode

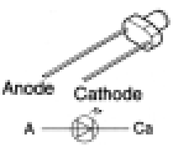
1D3E
RL1N4003N02


Ca
Cathode
A
Anode

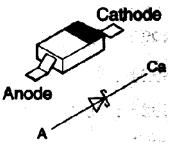
MTZJ4R7BTA
MTZJ5R6BTA
MTZJ6R6BTA
MTZJ10BTA
MTZJ15CTA
MTZJ16BTA
MTZJ33BTA


Ca
Cathode
A
Anode

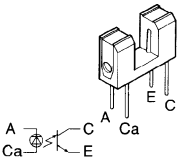
SLI325URCT31
SLR325YCT31


Anode
Cathode
A
Ca

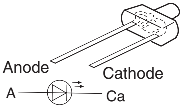
MA728TX


Cathode
Anode
Ca
A

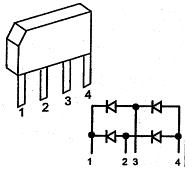
GP1S94


E
C
A
Ca
A
C
Ca
E

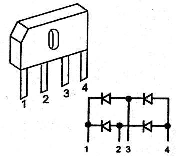
LNJ301MPUJAD

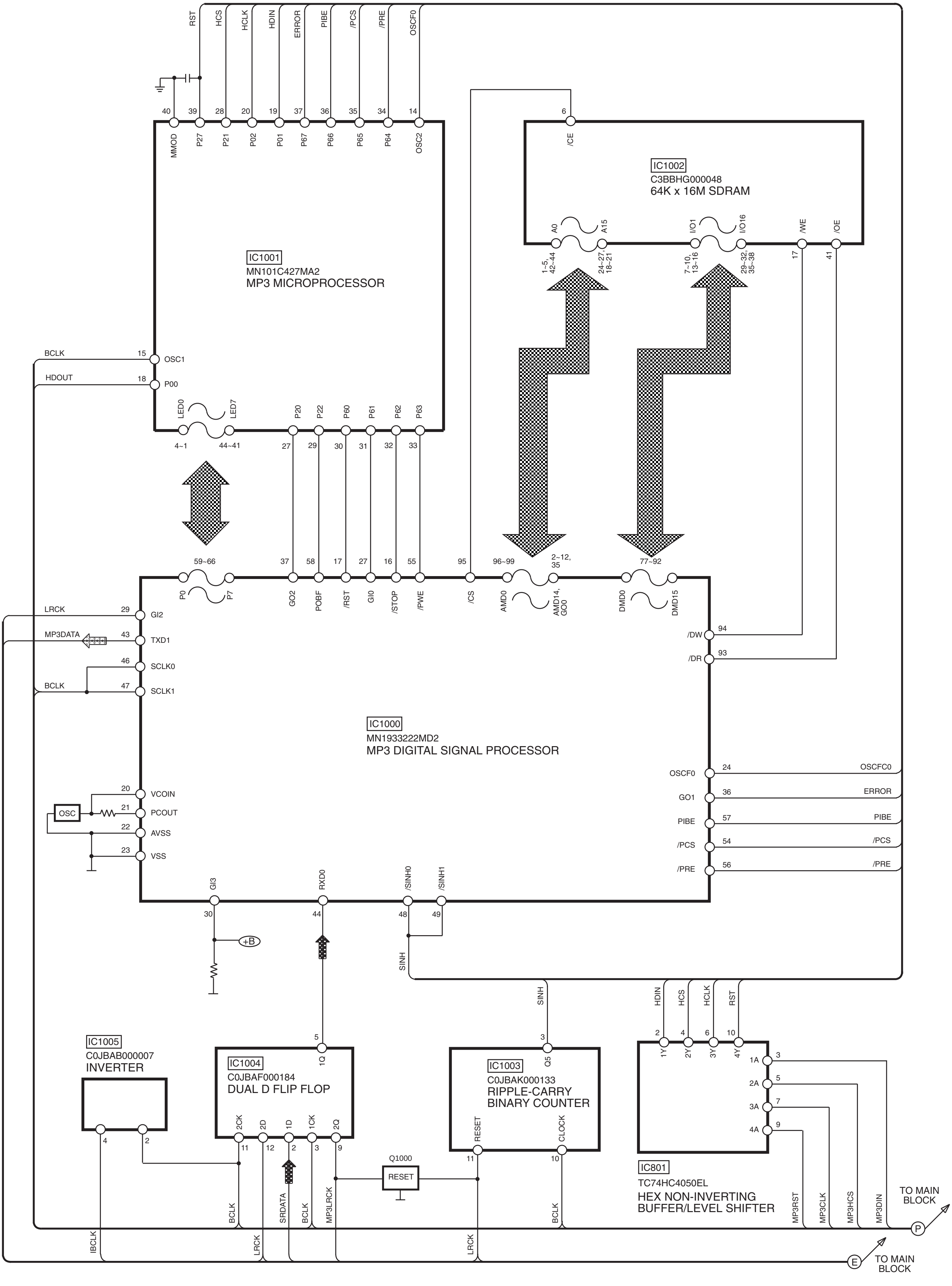

Anode
Cathode
A
Ca

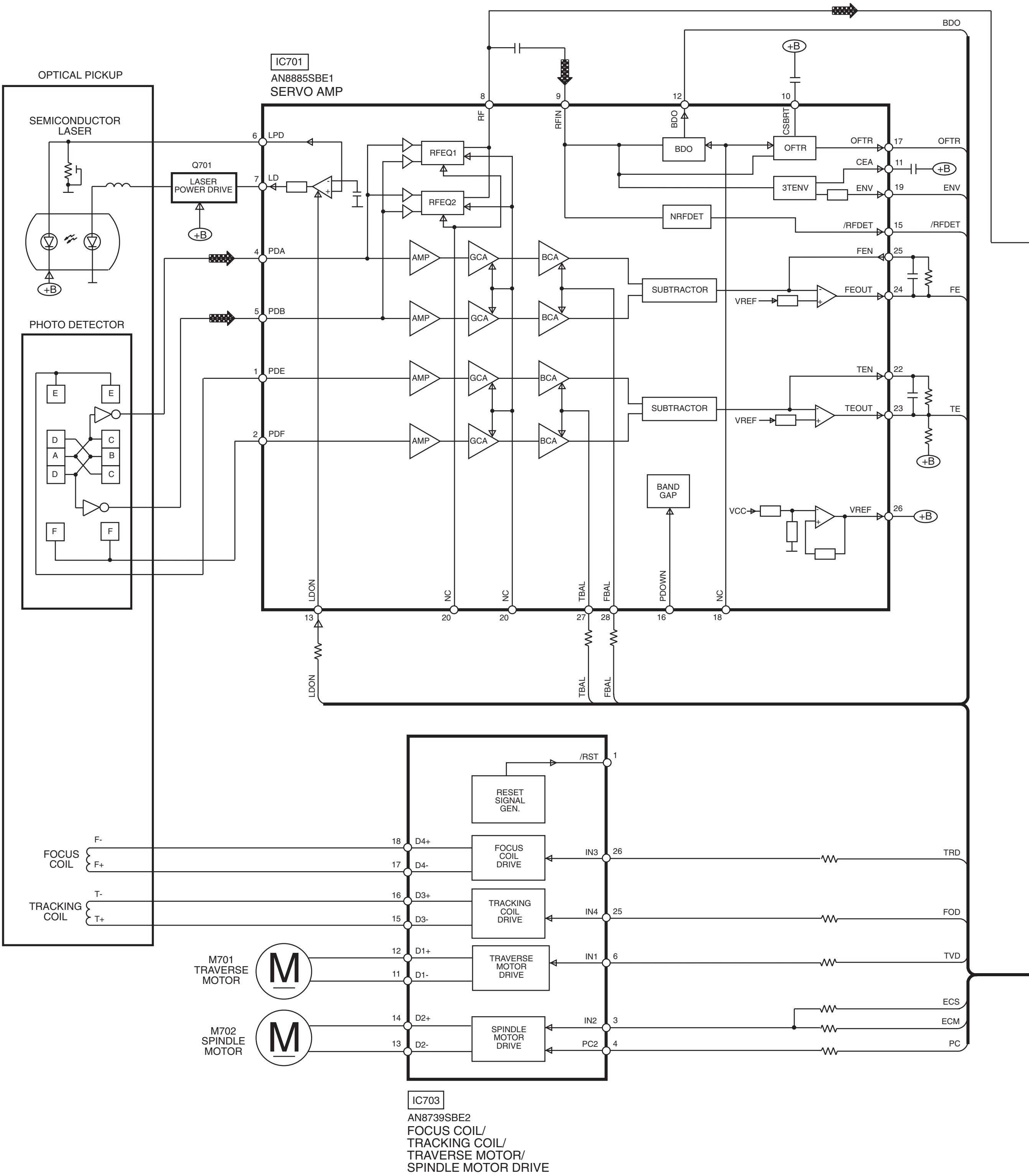
KBP152G4R5

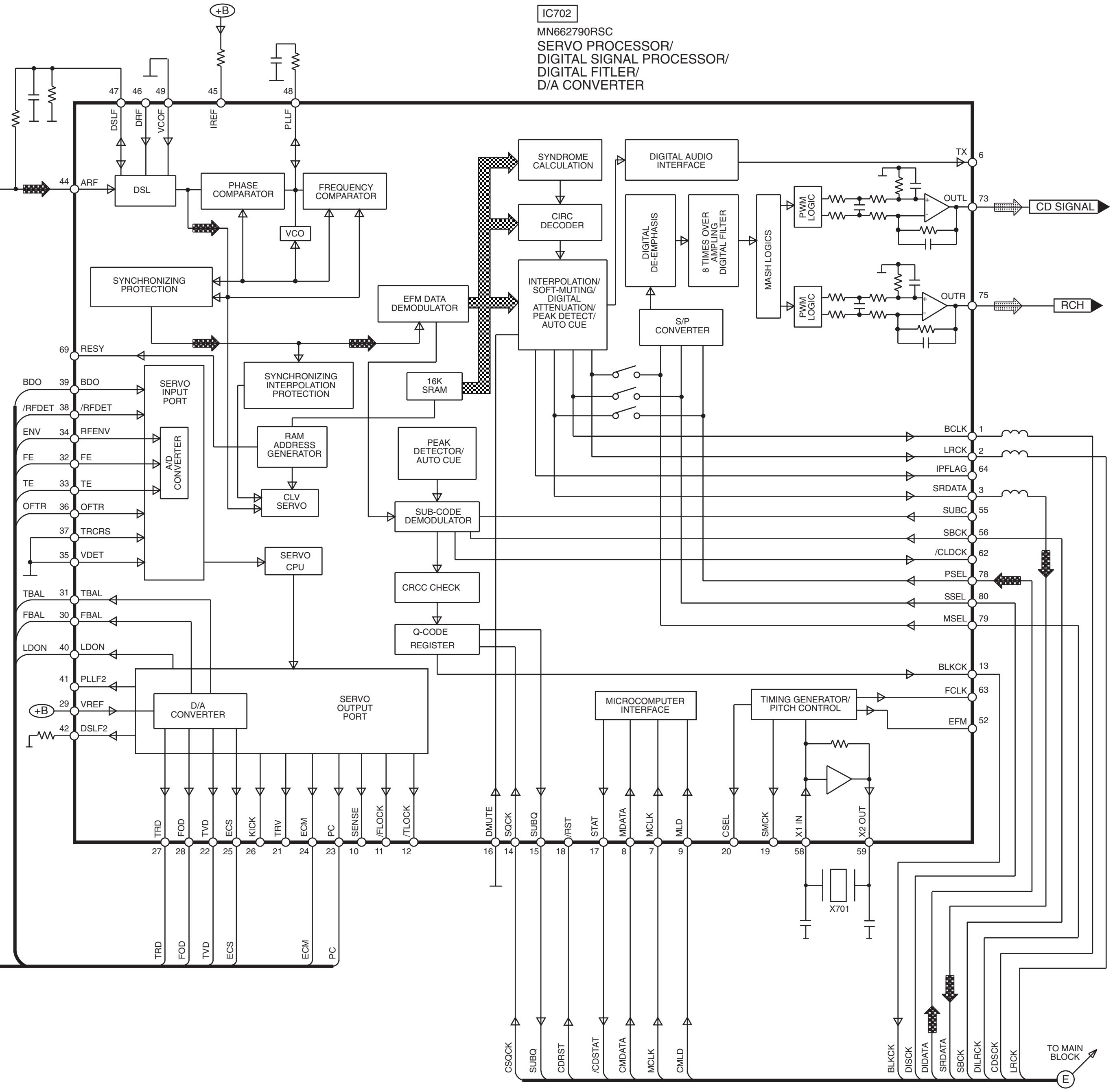


KBU803-001




RST
HCS
HCLK
HDIN
ERROR
PIBE
/PCS
/PRE
OSCF0
40
39
28
20
19
37
36
35
34
14
MMOD
P27
P21
P02
P01
P67
P66
P65
P64
OSC2
IC1001
MN101C427MA2
MP3 MICROPROCESSOR
BCLK
15
OSC1
HDOUT
18
P00
LED0
LED7
P20
P22
P60
P61
P62
P63
4~1
44~41
27
29
30
31
32
33
6
/CE
IC1002
C3BBHG000048
64K x 16M SDRAM
A0
A15
I/O1
I/O16
/WE
/OE
1~5, 42~44
24~27, 18~21
7~10, 13~16
29~32, 35~38
17
41
59~66
37
58
17
27
16
55
95
96~99
2~12, 35
77~92
P0
P7
GO2
POBF
/RST
GI0
/STOP
/PWE
/CS
AMD0
AMD14, GO0
DMD0
DMD15
LRCK
29
GI2
MP3DATA
43
TXD1
46
SCLK0
BCLK
47
SCLK1
/DW
94
/DR
93
IC1000
MN1933222MD2
MP3 DIGITAL SIGNAL PROCESSOR
OSCF0
24
OSCFC0
GO1
36
ERROR
PIBE
57
PIBE
/PCS
54
/PCS
/PRE
56
/PRE
20
VCOIN
OSC
21
PCOUT
22
AVSS
23
VSS
GI3
RXD0
/SINH0
/SINH1
30
44
48
49
+B
SINH
SINH
HDIN
HCS
HCLK
RST
IC1005
C0JBAB000007
INVERTER
4
2
5
1Q
IC1004
C0JBAF000184
DUAL D FLIP FLOP
2CK
2D
1D
1CK
2Q
11
12
2
3
9
3
Q5
IC1003
C0JBAK000133
RIPPLE-CARRY
BINARY COUNTER
RESET
CLOCK
11
10
Q1000
RESET
2
4
6
10
1Y
2Y
3Y
4Y
1A
3
2A
5
3A
7
4A
9
IC801
TC74HC4050EL
HEX NON-INVERTING
BUFFER/LEVEL SHIFTER
BCLK
SRDATA
BCLK
MP3LRCK
BCLK
MP3RST
MP3CLK
MP3HCS
MP3DIN
TO MAIN BLOCK
P
IBCLK
LRCK
LRCK
E
TO MAIN BLOCK


OPTICAL PICKUP
SEMICONDUCTOR LASER
PHOTO DETECTOR
E
E
D
A
D
C
B
C
F
F
+B
IC701
AN8885SBE1
SERVO AMP
Q701
LASER POWER DRIVE
6 LPD
7 LD
4 PDA
5 PDB
1 PDE
2 PDF
8 RF
9 RFIN
12 BDO
10 CSBRT
RFEQ1
RFEQ2
AMP
GCA
BCA
SUBTRACTOR
BDO
OFTR
3TENV
NRFDET
BAND GAP
VREF
VCC
OFTR 17
CEA 11
ENV 19
/RFDET 15
FEN 25
FEOUT 24
TEN 22
TEOUT 23
VREF 26
LDON 13
NC 20
NC 20
TBAL 27
FBAL 28
PDOWN 16
NC 18
LDON
TBAL
FBAL
BDO
OFTR
ENV
/RFDET
FE
TE
/RST 1
RESET SIGNAL GEN.
FOCUS COIL
F-
F+
TRACKING COIL
T-
T+
18 D4+
17 D4-
16 D3+
15 D3-
12 D1+
11 D1-
14 D2+
13 D2-
FOCUS COIL DRIVE
TRACKING COIL DRIVE
TRAVERSE MOTOR DRIVE
SPINDLE MOTOR DRIVE
IN3 26
IN4 25
IN1 6
IN2 3
PC2 4
TRD
FOD
TVD
ECS
ECM
PC
M701 TRAVERSE MOTOR
M702 SPINDLE MOTOR
M
M
IC703
AN8739SBE2
FOCUS COIL/
TRACKING COIL/
TRAVERSE MOTOR/
SPINDLE MOTOR DRIVE

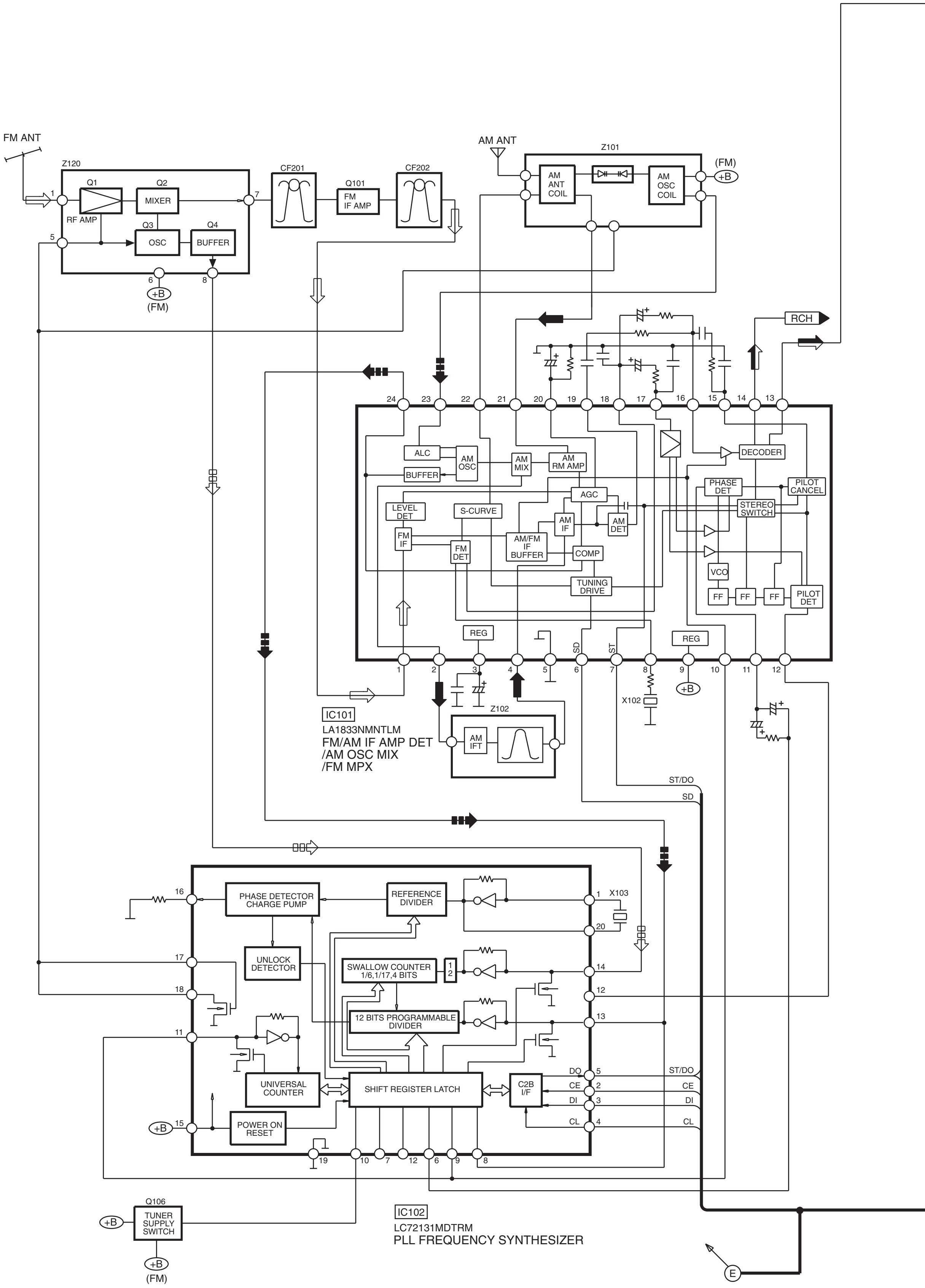


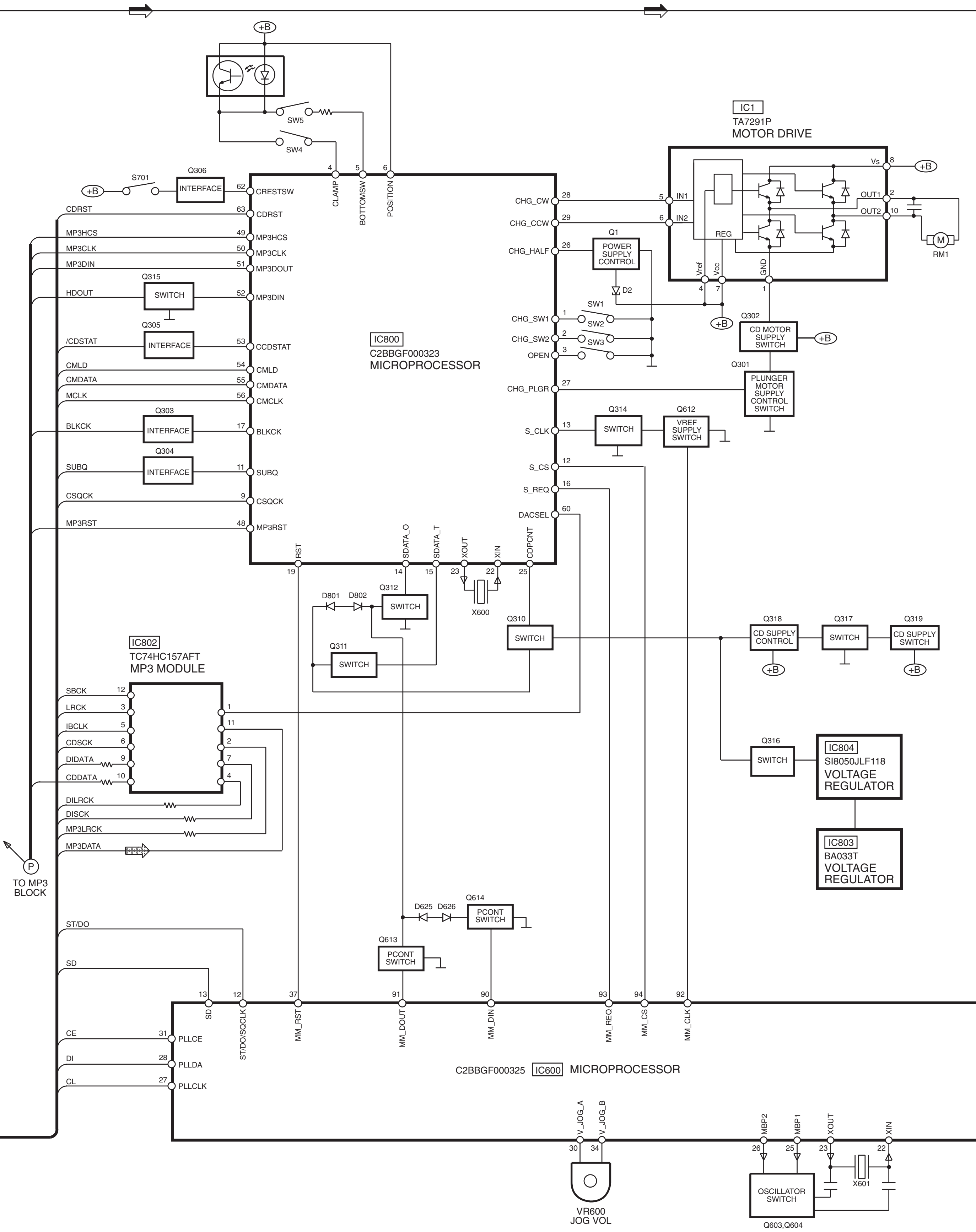
IC702

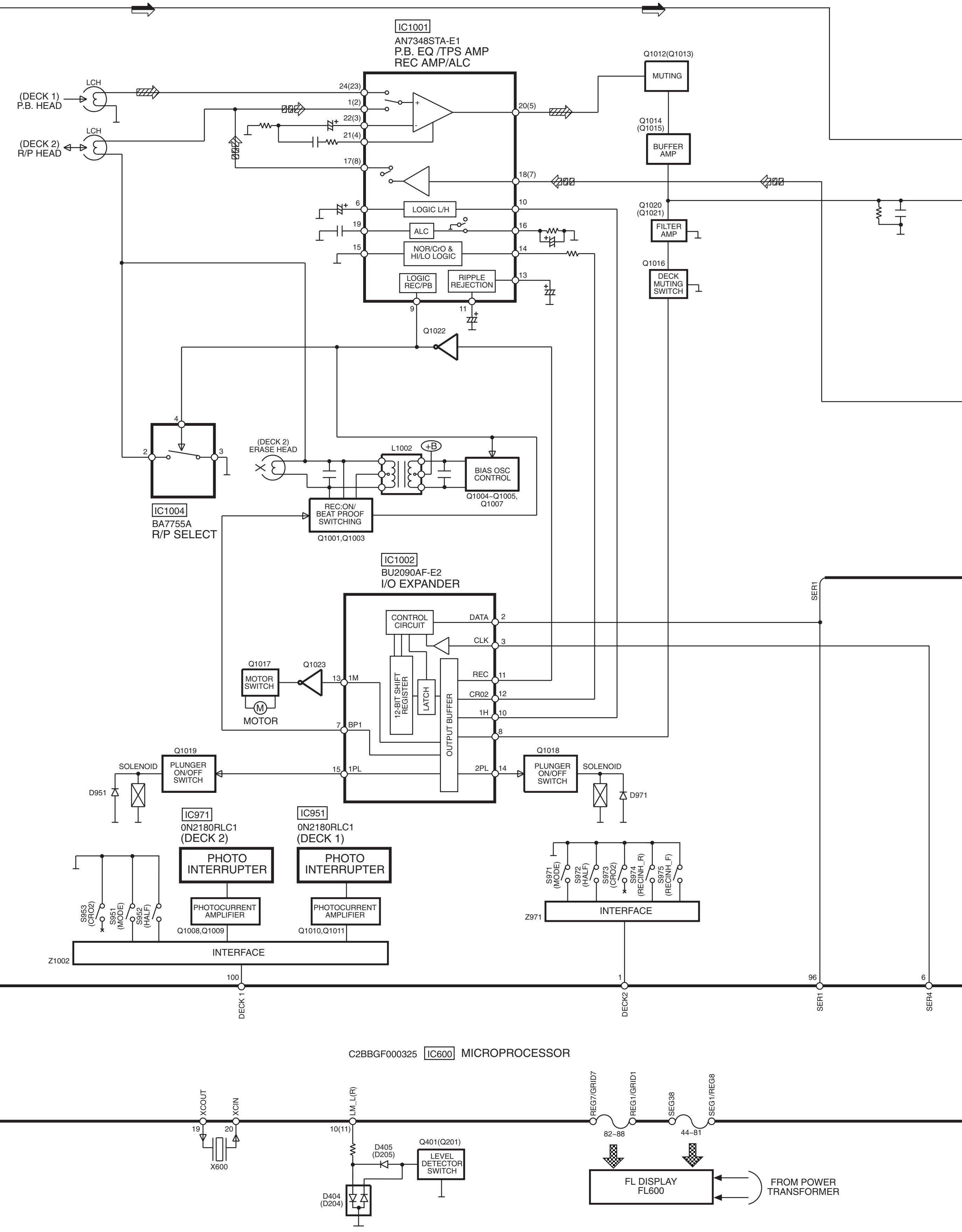
MN662790RSC

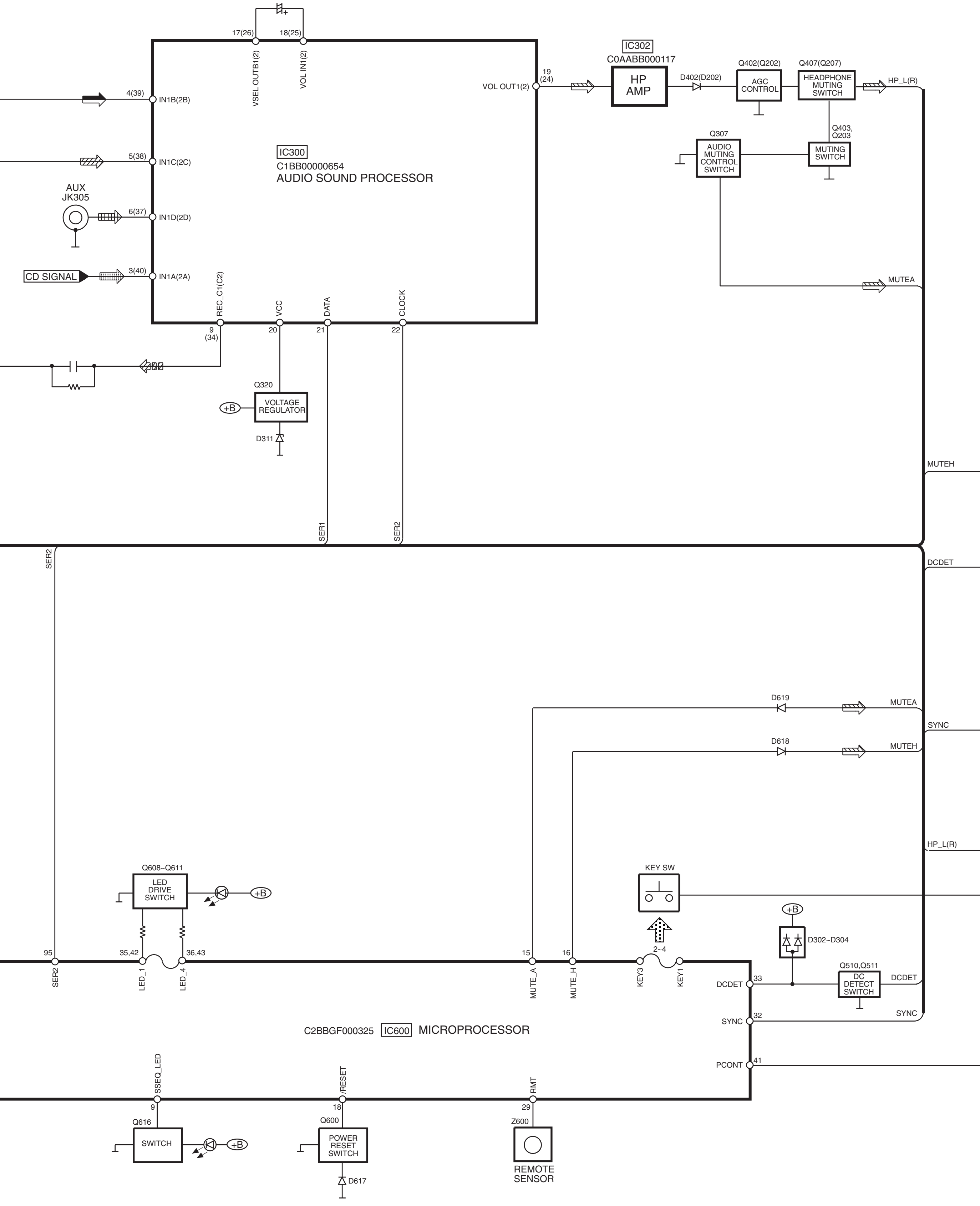
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FITLER/
D/A CONVERTER

+B
47
46
49
45
48
DSLF
DRF
VCOF
IREF
PLLF
44
ARF
DSL
PHASE COMPARATOR
FREQUENCY COMPARATOR
VCO
SYNCHRONIZING PROTECTION
EFM DATA DEMODULATOR
SYNDROME CALCULATION
CIRC DECODER
INTERPOLATION/ SOFT-MUTING/ DIGITAL ATTENUATION/ PEAK DETECT/ AUTO CUE
DIGITAL AUDIO INTERFACE
DIGITAL DE-EMPHASIS
8 TIMES OVER AMPLING DIGITAL FILTER
MASH LOGICS
PWM LOGIC
PWM LOGIC
S/P CONVERTER
TX
6
OUTL
73
CD SIGNAL
OUTR
75
RCH
69
RESY
BDO
39
BDO
/RFDET
38
/RFDET
ENV
34
RFENV
FE
32
FE
TE
33
TE
OFTR
36
OFTR
37
TRCRS
35
VDET
SERVO INPUT PORT
A/D CONVERTER
SYNCHRONIZING INTERPOLATION PROTECTION
16K SRAM
RAM ADDRESS GENERATOR
CLV SERVO
PEAK DETECTOR/ AUTO CUE
SUB-CODE DEMODULATOR
SERVO CPU
CRCC CHECK
Q-CODE REGISTER
BCLK
1
LRCK
2
IPFLAG
64
SRDATA
3
SUBC
55
SBCK
56
/CLDCK
62
PSEL
78
SSEL
80
MSEL
79
BLKCK
13
FCLK
63
EFM
52
TBAL
31
TBAL
FBAL
30
FBAL
LDON
40
LDON
41
PLLF2
+B
29
VREF
42
DSLF2
D/A CONVERTER
SERVO OUTPUT PORT
MICROCOMPUTER INTERFACE
TIMING GENERATOR/ PITCH CONTROL
TRD
FOD
TVD
ECS
KICK
TRV
ECM
PC
SENSE
/FLOCK
/TLOCK
27
28
22
25
26
21
24
23
10
11
12
DMUTE
SQCK
SUBQ
/RST
STAT
MDATA
MCLK
MLD
CSEL
SMCK
X1 IN
X2 OUT
16
14
15
18
17
8
7
9
20
19
58
59
X701
TRD
FOD
TVD
ECS
ECM
PC
CSQCK
SUBQ
CDRST
/CDSTAT
CMDATA
MCLK
CMLD
BLKCK
DISCK
DIDATA
SRDATA
SBCK
DILRCK
CDSCK
LRCK
TO MAIN BLOCK
E


FM ANT
Z120
Q1
Q2
MIXER
RF AMP
Q3
Q4
OSC
BUFFER
1
5
7
6
8
+B
(FM)
CF201
Q101
FM
IF AMP
CF202
AM ANT
Z101
AM
ANT
COIL
AM
OSC
COIL
(FM)
+B
RCH
24
23
22
21
20
19
18
17
16
15
14
13
ALC
AM
OSC
AM
MIX
AM
RM AMP
BUFFER
AGC
DECODER
PHASE
DET
PILOT
CANCEL
LEVEL
DET
S-CURVE
AM
IF
AM
DET
STEREO
SWITCH
FM
IF
FM
DET
AM/FM
IF
BUFFER
COMP
VCO
TUNING
DRIVE
FF
FF
FF
PILOT
DET
REG
REG
SD
ST
1
2
3
4
5
6
7
8
9
10
11
12
+B
X102
Z102
AM
IFT
IC101
LA1833NMNTLM
FM/AM IF AMP DET
/AM OSC MIX
/FM MPX
ST/DO
SD
16
PHASE DETECTOR
CHARGE PUMP
REFERENCE
DIVIDER
1
X103
20
UNLOCK
DETECTOR
17
SWALLOW COUNTER
1/6,1/17,4 BITS
1
2
14
18
12
12 BITS PROGRAMMABLE
DIVIDER
13
11
UNIVERSAL
COUNTER
SHIFT REGISTER LATCH
C2B
I/F
DO
5
ST/DO
CE
2
CE
DI
3
DI
CL
4
CL
+B
15
POWER ON
RESET
19
10
7
12
6
9
8
Q106
+B
TUNER
SUPPLY
SWITCH
+B
(FM)
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
E


+B
SW5
SW4
S701
Q306
INTERFACE
62 CRESTSW
4 CLAMP
5 BOTTOMSW
6 POSITION
CDRST 63 CDRST
MP3HCS 49 MP3HCS
MP3CLK 50 MP3CLK
MP3DIN 51 MP3DOUT
Q315
HDOUT SWITCH 52 MP3DIN
Q305
/CDSTAT INTERFACE 53 CCDSTAT
CMLD 54 CMLD
CMDATA 55 CMDATA
MCLK 56 CMCLK
Q303
BLKCK INTERFACE 17 BLKCK
Q304
SUBQ INTERFACE 11 SUBQ
CSQCK 9 CSQCK
MP3RST 48 MP3RST
IC800
C2BBGF000323
MICROPROCESSOR
CHG_CW 28
CHG_CCW 29
CHG_HALF 26
Q1
POWER SUPPLY CONTROL
D2
CHG_SW1 1
CHG_SW2 2
OPEN 3
SW1
SW2
SW3
CHG_PLGR 27
S_CLK 13
S_CS 12
S_REQ 16
DACSEL 60
IC1
TA7291P
MOTOR DRIVE
5 IN1
6 IN2
REG
Vref 4
Vcc 7
GND 1
Vs 8
OUT1 2
OUT2 10
M
RM1
Q302
CD MOTOR SUPPLY SWITCH
Q301
PLUNGER MOTOR SUPPLY CONTROL SWITCH
Q314
SWITCH
Q612
VREF SUPPLY SWITCH
RST 19
SDATA_O 14
SDATA_T 15
XOUT 23
XIN 22
CDPCNT 25
X600
D801
D802
Q312
SWITCH
Q311
SWITCH
Q310
SWITCH
Q318
CD SUPPLY CONTROL
Q317
SWITCH
Q319
CD SUPPLY SWITCH
Q316
SWITCH
IC804
SI8050JLF118
VOLTAGE REGULATOR
IC803
BA033T
VOLTAGE REGULATOR
IC802
TC74HC157AFT
MP3 MODULE
SBCK 12
LRCK 3
IBCLK 5
CDSCK 6
DIDATA 9
CDDATA 10
1
11
2
7
4
DILRCK
DISCK
MP3LRCK
MP3DATA
P
TO MP3 BLOCK
D625
D626
Q614
PCONT SWITCH
Q613
PCONT SWITCH
ST/DO
SD
13 SD
12 ST/DO/SQCLK
37 MM_RST
91 MM_DOUT
90 MM_DIN
93 MM_REQ
94 MM_CS
92 MM_CLK
CE 31 PLLCE
DI 28 PLLDA
CL 27 PLLCLK
C2BBGF000325
IC600
MICROPROCESSOR
V_JOG_A 30
V_JOG_B 34
VR600
JOG VOL
MBP2 26
MBP1 25
XOUT 23
XIN 22
X601
OSCILLATOR SWITCH
Q603,Q604

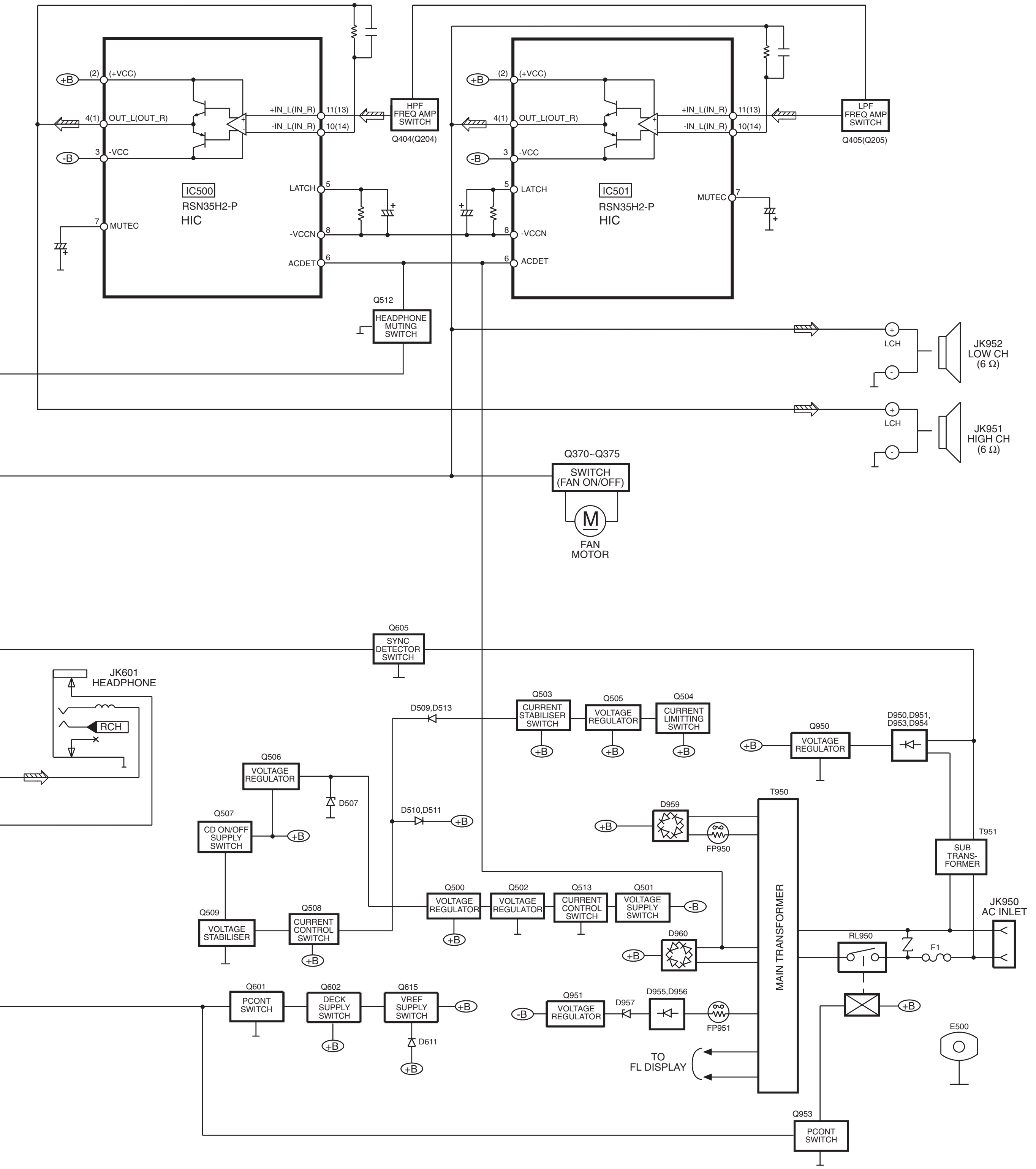

IC1001
AN7348STA-E1
P.B. EQ /TPS AMP
REC AMP/ALC
LCH
(DECK 1)
P.B. HEAD
LCH
(DECK 2)
R/P HEAD
24(23)
1(2)
22(3)
21(4)
17(8)
20(5)
18(7)
6
19
15
10
16
14
13
LOGIC L/H
ALC
NOR/CrO &
HI/LO LOGIC
LOGIC
REC/PB
RIPPLE
REJECTION
9
11
Q1022
Q1012(Q1013)
MUTING
Q1014
(Q1015)
BUFFER
AMP
Q1020
(Q1021)
FILTER
AMP
Q1016
DECK
MUTING
SWITCH
4
2
3
IC1004
BA7755A
R/P SELECT
(DECK 2)
ERASE HEAD
L1002
+B
BIAS OSC
CONTROL
Q1004~Q1005,
Q1007
REC:ON/
BEAT PROOF
SWITCHING
Q1001,Q1003
IC1002
BU2090AF-E2
I/O EXPANDER
CONTROL
CIRCUIT
DATA
2
CLK
3
12-BIT SHIFT
REGISTER
LATCH
OUTPUT BUFFER
REC
11
CR02
12
1H
10
8
2PL
14
13
1M
7
BP1
15
1PL
Q1017
MOTOR
SWITCH
M
MOTOR
Q1023
SER1
Q1019
SOLENOID
PLUNGER
ON/OFF
SWITCH
D951
Q1018
PLUNGER
ON/OFF
SWITCH
SOLENOID
D971
IC971
0N2180RLC1
(DECK 2)
PHOTO
INTERRUPTER
PHOTOCURRENT
AMPLIFIER
Q1008,Q1009
IC951
0N2180RLC1
(DECK 1)
PHOTO
INTERRUPTER
PHOTOCURRENT
AMPLIFIER
Q1010,Q1011
S953
(CRO2)
S951
(MODE)
S952
(HALF)
INTERFACE
Z1002
S971
(MODE)
S972
(HALF)
S973
(CRO2)
S974
(RECINH_R)
S975
(RECINH_F)
INTERFACE
Z971
100
DECK 1
1
DECK2
96
SER1
6
SER4
C2BBGF000325
IC600
MICROPROCESSOR
XCOUT
XCIN
19
20
X600
LM_L(R)
10(11)
D405
(D205)
Q401(Q201)
LEVEL
DETECTOR
SWITCH
D404
(D204)
REG7/GRID7
REG1/GRID1
SEG38
SEG1/REG8
82~88
44~81
FL DISPLAY
FL600
FROM POWER
TRANSFORMER


17(26)
18(25)
VSEL OUTB1(2)
VOL IN1(2)
IC302
C0AABB000117
HP AMP
19 (24)
VOL OUT1(2)
D402(D202)
Q402(Q202)
AGC CONTROL
Q407(Q207)
HEADPHONE MUTING SWITCH
HP_L(R)
Q403, Q203
MUTING SWITCH
Q307
AUDIO MUTING CONTROL SWITCH
4(39)
IN1B(2B)
5(38)
IN1C(2C)
IC300
C1BB00000654
AUDIO SOUND PROCESSOR
AUX JK305
6(37)
IN1D(2D)
CD SIGNAL
3(40)
IN1A(2A)
MUTEA
REC_C1(C2)
VCC
DATA
CLOCK
9 (34)
20
21
22
Q320
VOLTAGE REGULATOR
+B
D311
MUTEH
SER1
SER2
DCDET
D619
MUTEA
SYNC
D618
MUTEH
HP_L(R)
Q608~Q611
LED DRIVE SWITCH
+B
KEY SW
+B
D302~D304
2~4
Q510,Q511
DC DETECT SWITCH
95
35,42
36,43
15
16
SER2
LED_1
LED_4
MUTE_A
MUTE_H
KEY3
KEY1
DCDET
33
DCDET
SYNC
32
SYNC
C2BBGF000325
IC600
MICROPROCESSOR
PCONT
41
SSEQ_LED
/RESET
RMT
9
18
29
Q616
SWITCH
+B
Q600
POWER RESET SWITCH
D617
Z600
REMOTE SENSOR

SIGNAL LINES

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ⇨ | MAIN SIGNAL LINE | ⇨ | CD SIGNAL LINE | ➡ | AM SIGNAL LINE | ⇨ | PLAYBACK SIGNAL LINE |
| ▯▯⇨ | FM OSC SIGNAL LINE | ■■➡ | AM OSC SIGNAL LINE | ⇨ | FM & AM SIGNALS LINE | ▨▨⇨ | RECORDING SIGNAL LINE |
| ⇨ | FM SIGNAL LINE | ⇨ | MP3 SIGNAL LINE | ➡ | CD-DA (AUDIO/VIDEO) SIGNAL LINE | ▥⇨ | AUX SIGNAL LINE |

( ) INDICATES THE PIN NO. OF THE RIGHT CHANNEL

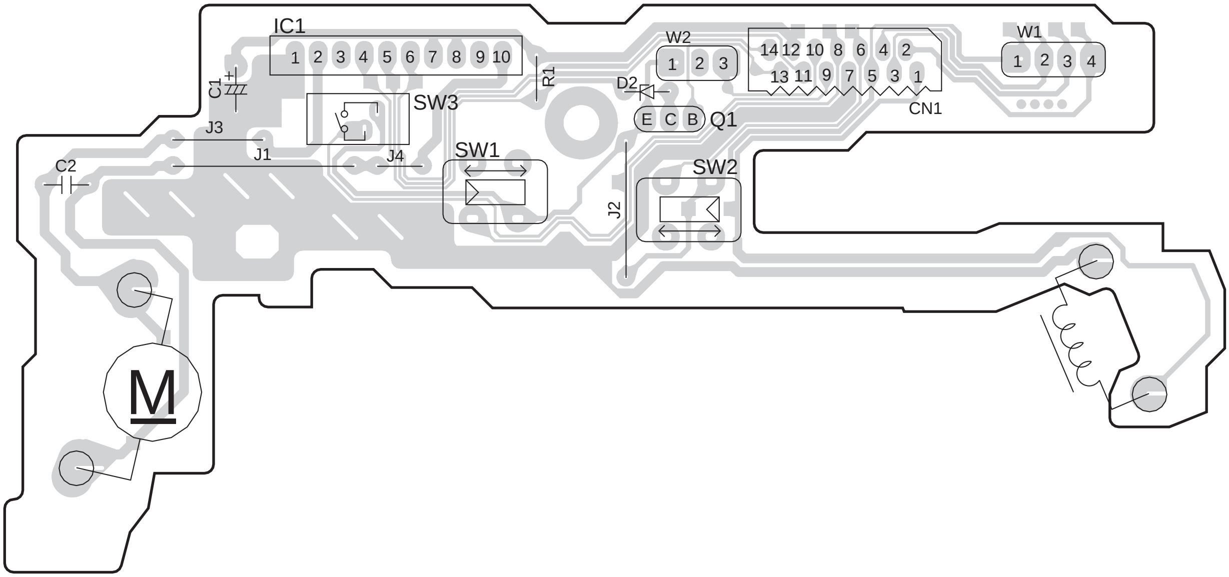


+B
(2)
(+VCC)
4(1)
OUT_L(OUT_R)
-B
3
-VCC
7
MUTEC
+IN_L(IN_R)
-IN_L(IN_R)
11(13)
10(14)
IC500
RSN35H2-P
HIC
LATCH
5
-VCCN
8
ACDET
6
HPF
FREQ AMP
SWITCH
Q404(Q204)
Q512
HEADPHONE
MUTING
SWITCH
IC501
RSN35H2-P
HIC
LPF
FREQ AMP
SWITCH
Q405(Q205)
LCH
JK952
LOW CH
(6 Ω)
JK951
HIGH CH
(6 Ω)
Q370~Q375
SWITCH
(FAN ON/OFF)
M
FAN
MOTOR
Q605
SYNC
DETECTOR
SWITCH
JK601
HEADPHONE
RCH
Q503
CURRENT
STABILISER
SWITCH
Q505
VOLTAGE
REGULATOR
Q504
CURRENT
LIMITTING
SWITCH
D509,D513
Q950
VOLTAGE
REGULATOR
D950,D951,
D953,D954
Q506
VOLTAGE
REGULATOR
D507
D510,D511
Q507
CD ON/OFF
SUPPLY
SWITCH
D959
FP950
T950
T951
SUB
TRANS-
FORMER
MAIN TRANSFORMER
Q509
VOLTAGE
STABILISER
Q508
CURRENT
CONTROL
SWITCH
Q500
VOLTAGE
REGULATOR
Q502
VOLTAGE
REGULATOR
Q513
CURRENT
CONTROL
SWITCH
Q501
VOLTAGE
SUPPLY
SWITCH
D960
JK950
AC INLET
RL950
F1
Q601
PCONT
SWITCH
Q602
DECK
SUPPLY
SWITCH
Q615
VREF
SUPPLY
SWITCH
D611
Q951
VOLTAGE
REGULATOR
D957
D955,D956
FP951
TO
FL DISPLAY
E500
Q953
PCONT
SWITCH

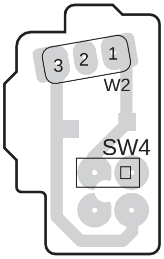
A B C D E F G

1 2 3 4 5 6 7 8 9

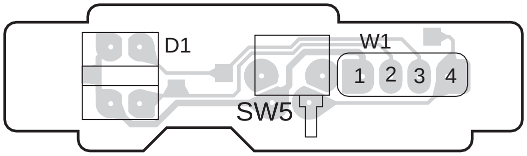
## K CD LOADING P.C.B (REP2578A-N)


IC1
1 2 3 4 5 6 7 8 9 10
C1
SW3
R1
W2
1 2 3
D2
E C B Q1
14 12 10 8 6 4 2
13 11 9 7 5 3 1
CN1
W1
1 2 3 4
J3
J1
J4
SW1
C2
J2
SW2
M

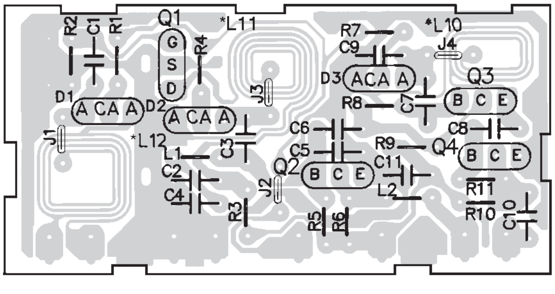
## L CD DETECT P.C.B (REP2578A-N)



## M SPINDLE POSITION P.C.B (REP2578A-N)


D1
W1
1 2 3 4
SW5

## N TUNER PACK P.C.B (REP1999B)


R2
C1
R1
Q1
G
S
D
R4
*L11
R7
C9
*L10
J4
D3
A CA A
Q3
J3
R8
C7
B C E
D1
A CA A
D2
A CA A
C6
C8
J1
*L12
L1
C3
C5
R9
Q4
B C E
C2
Q2
B C E
C11
L2
C4
J2
R3
R5
R6
R11
R10
C10